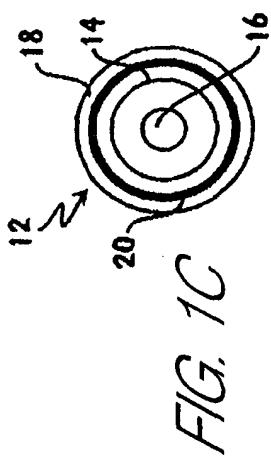
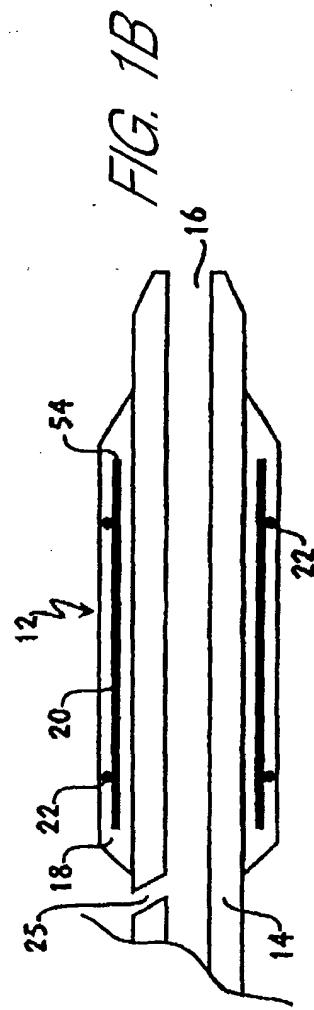
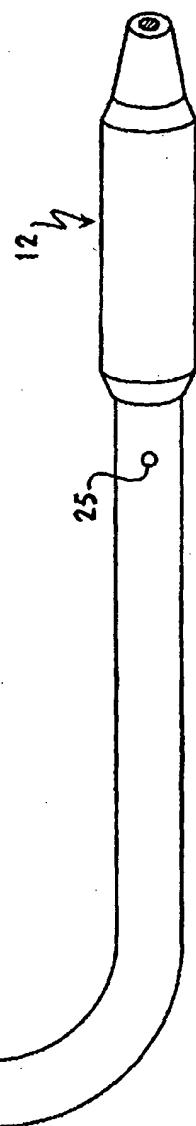
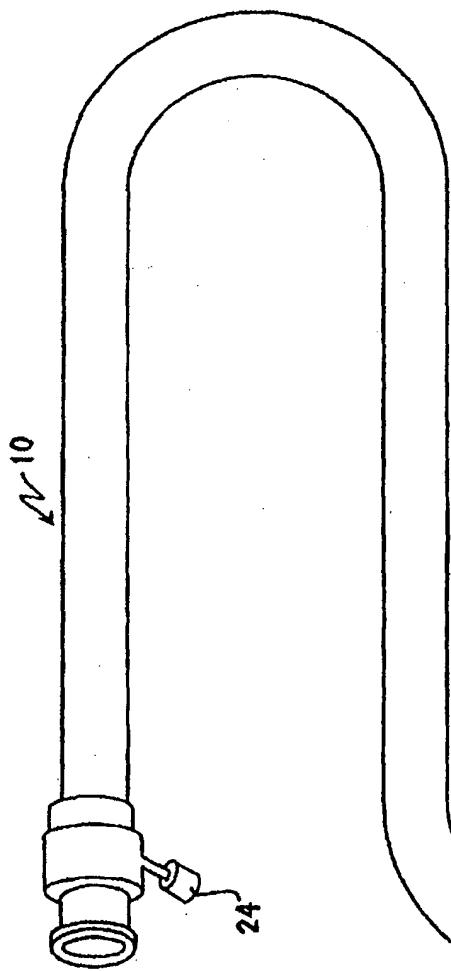


ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

FIG. 1A



ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

FIG. 2A

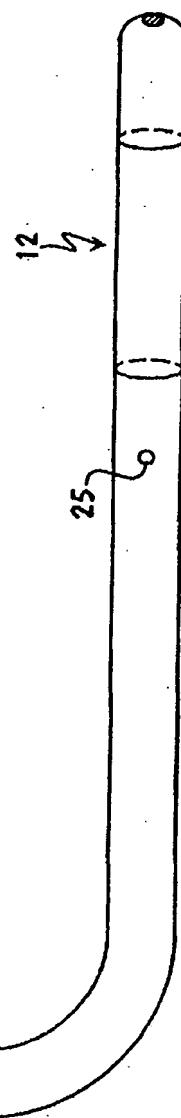
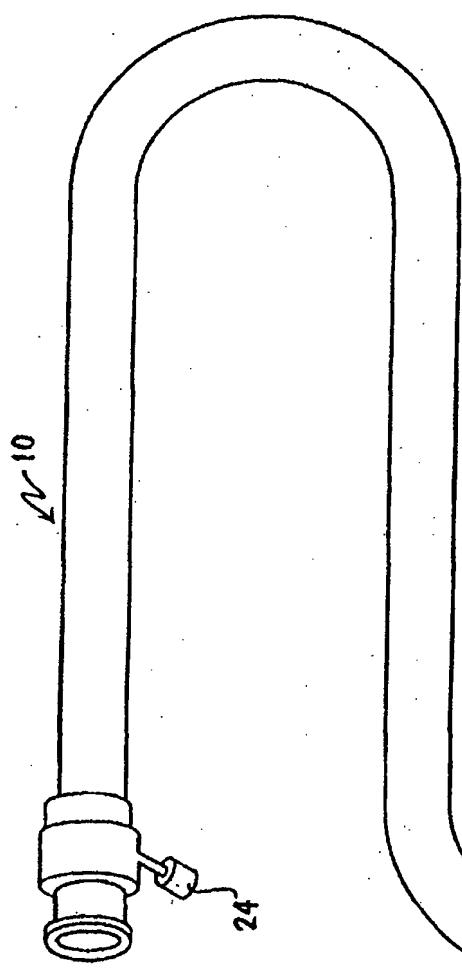
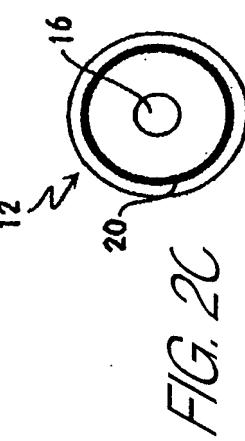
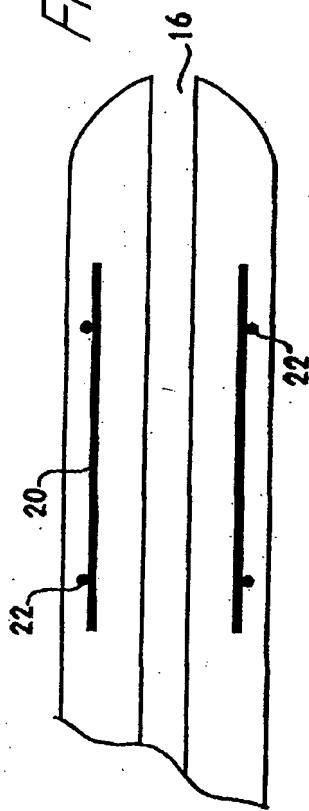


FIG. 2B



ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED DRUGS

Katsuro Tachibana, et al.

Appl. No.: Unknown

Atty Docket: EKOS.8CP3DV1C3

FIG. 3A

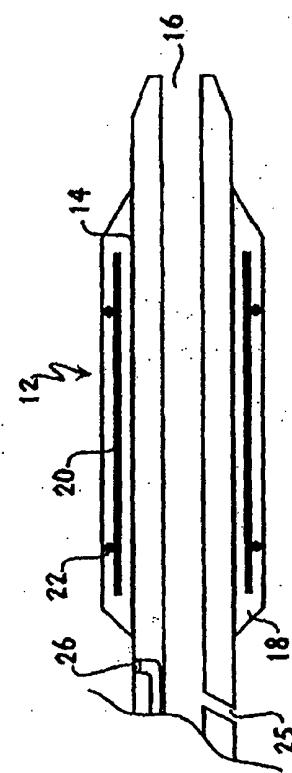
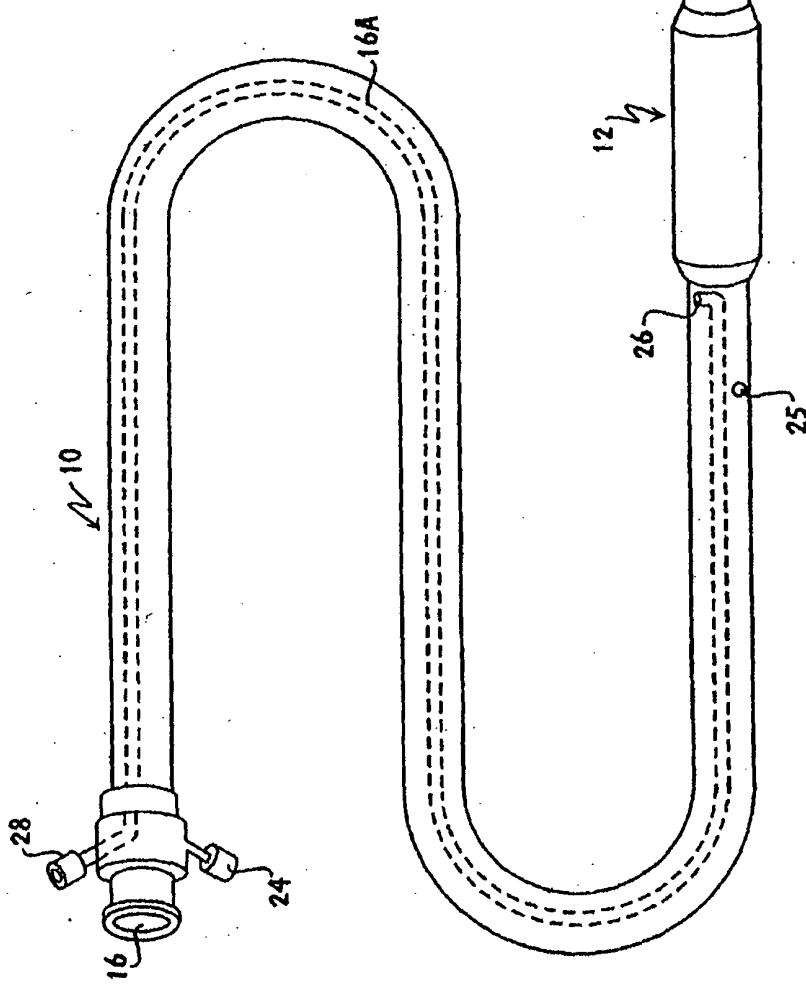


FIG. 3B

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

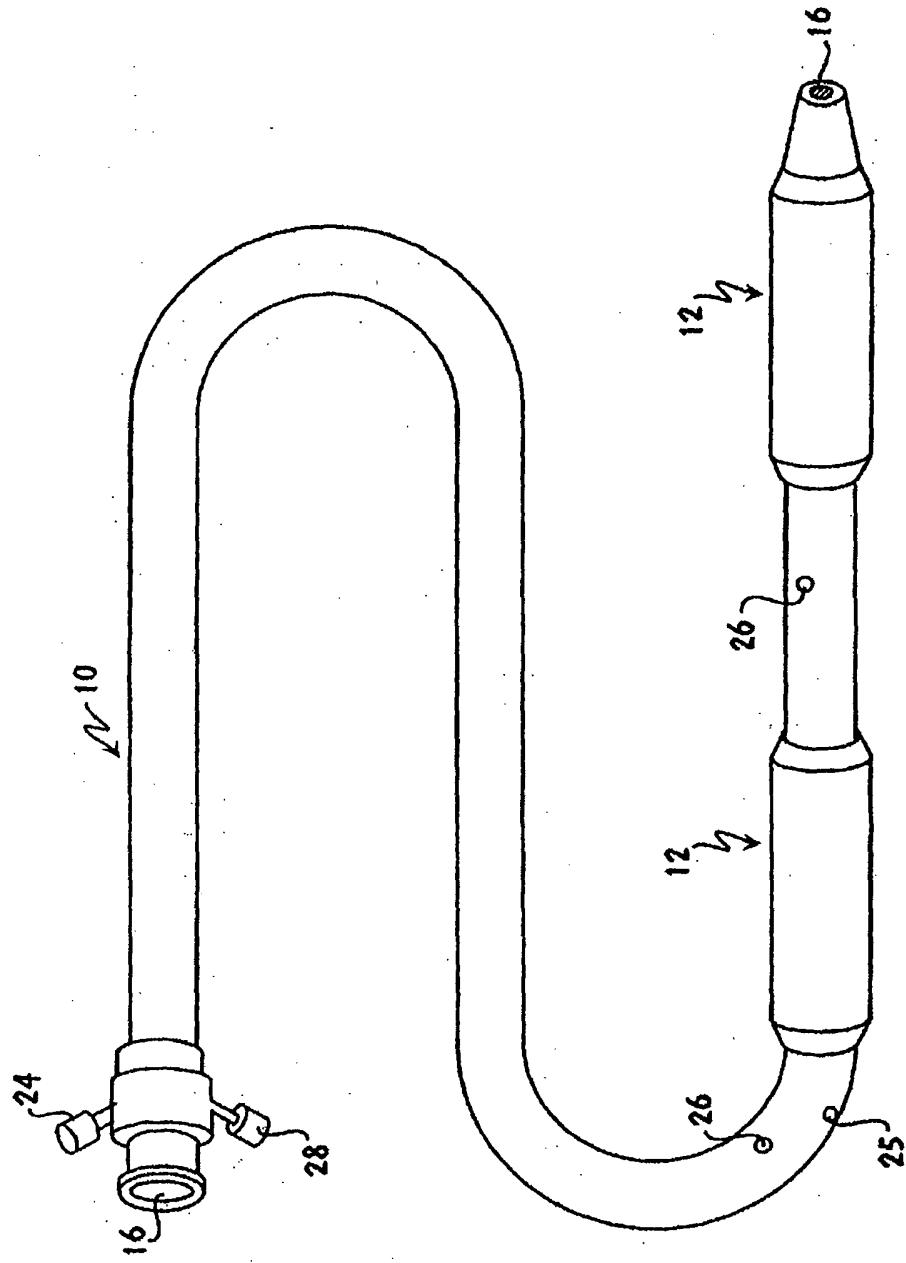
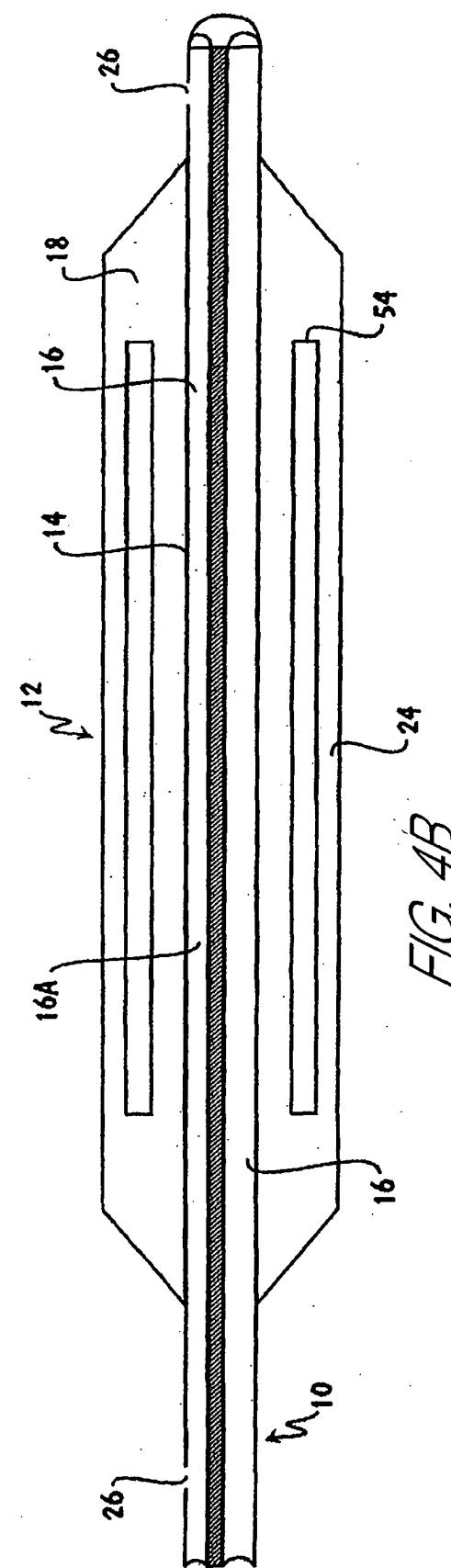
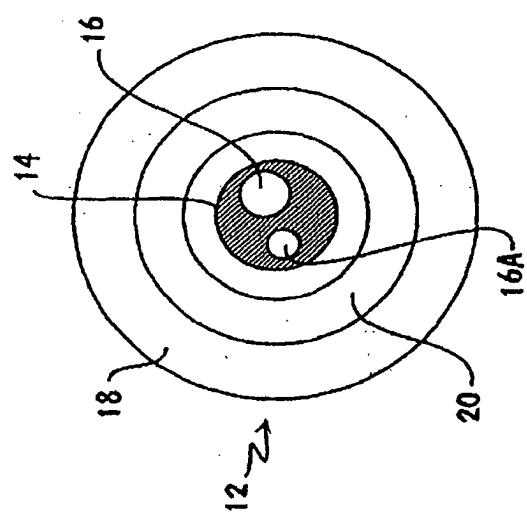


FIG. 4A

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS

Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3



## ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED

FOR 65  
*DRUGS*

DRUGS

Katsuro Tachibana, et al.

Appl. No.: Unknown

Atty Docket: EKOS.8CP3DV1C3

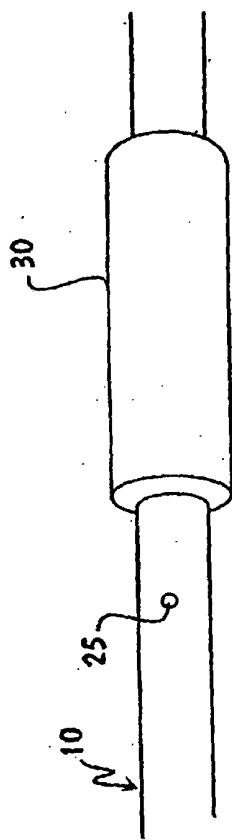


FIG. 5A

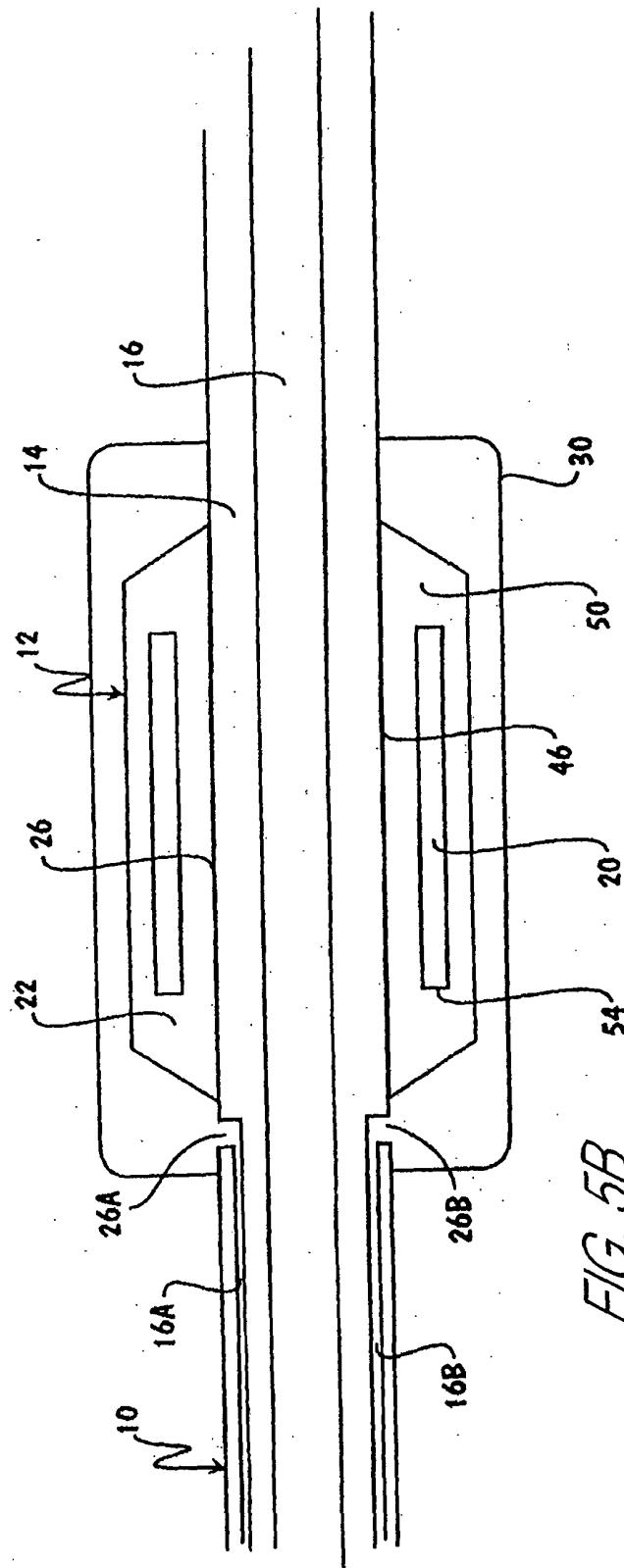


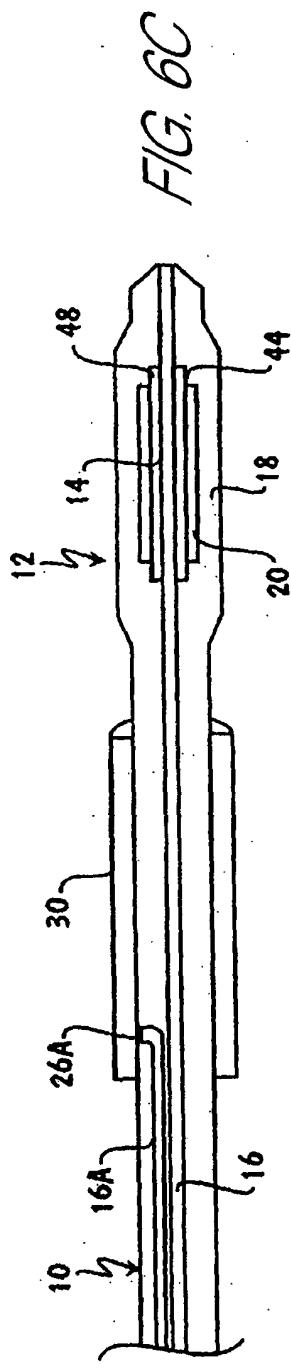
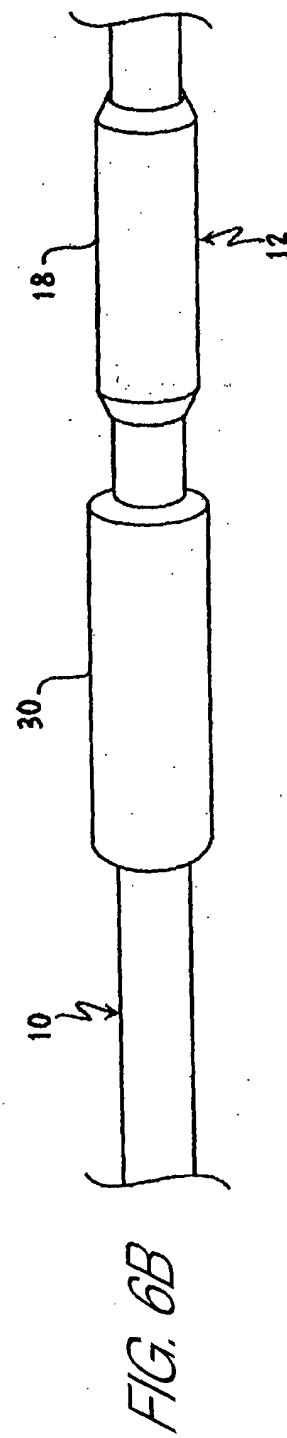
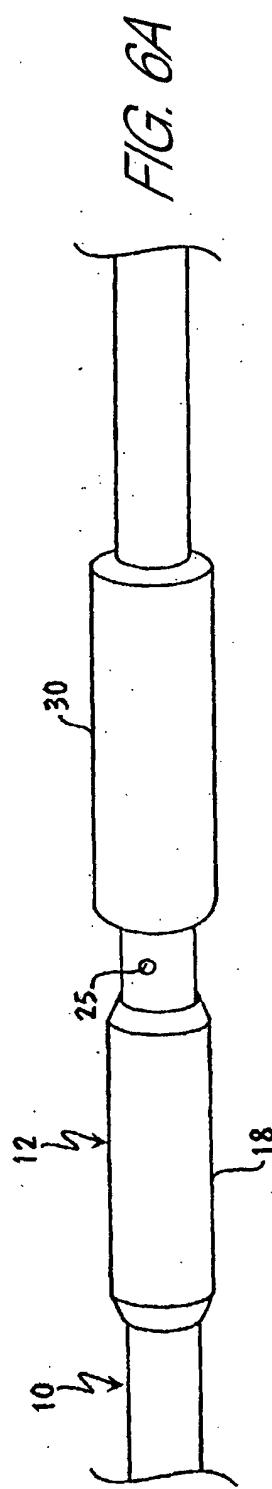
FIG. 5B

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED DRUGS

Katsuro Tachibana, et al.

Appl. No.: Unknown

Atty Docket: EKOS.8CP3DV1C3



ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

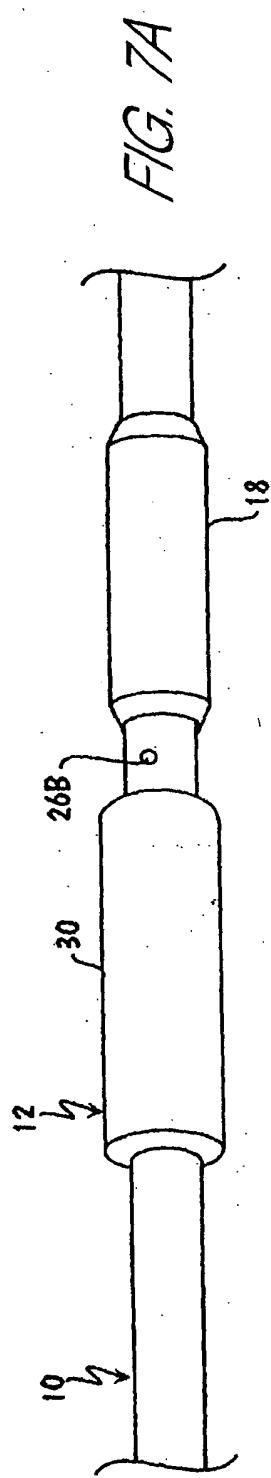


FIG. 7A

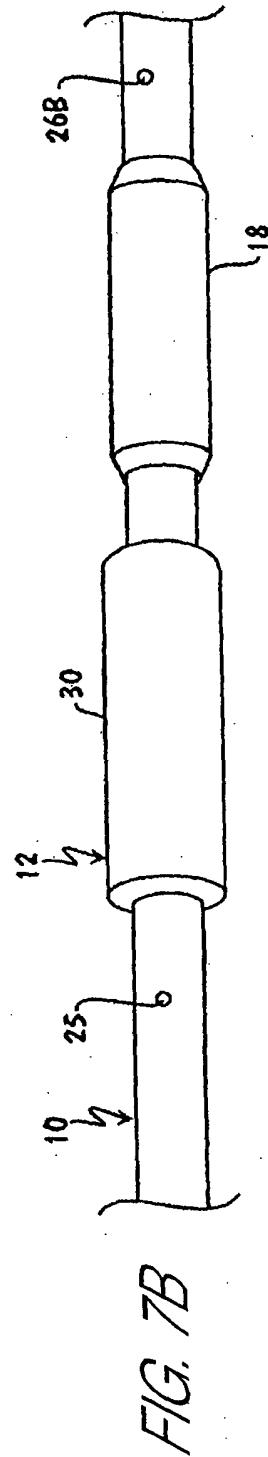


FIG. 7B

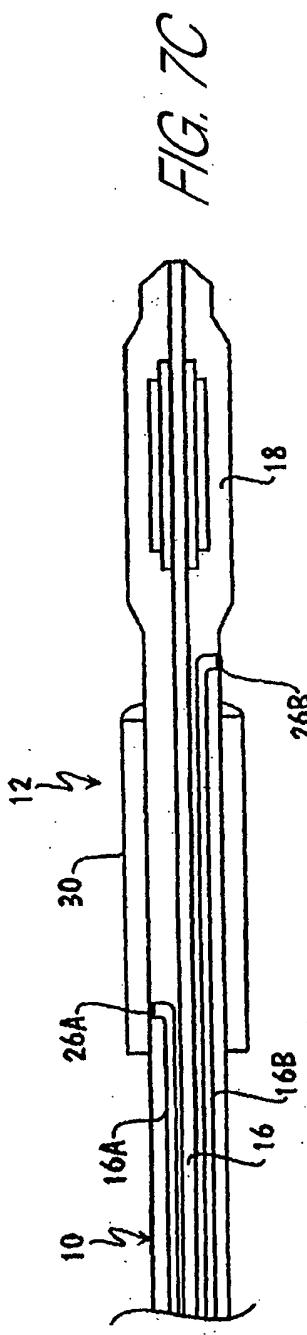
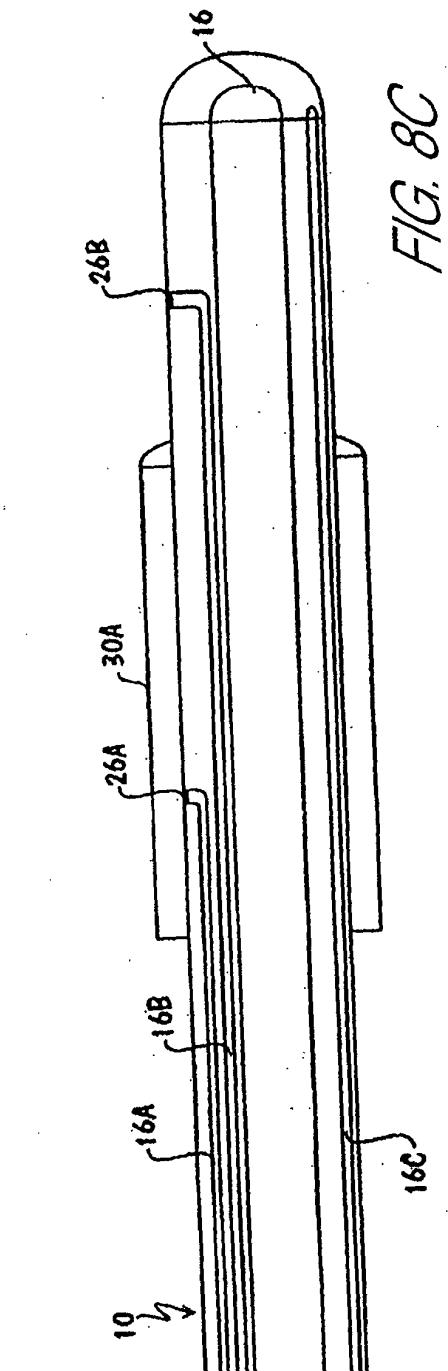
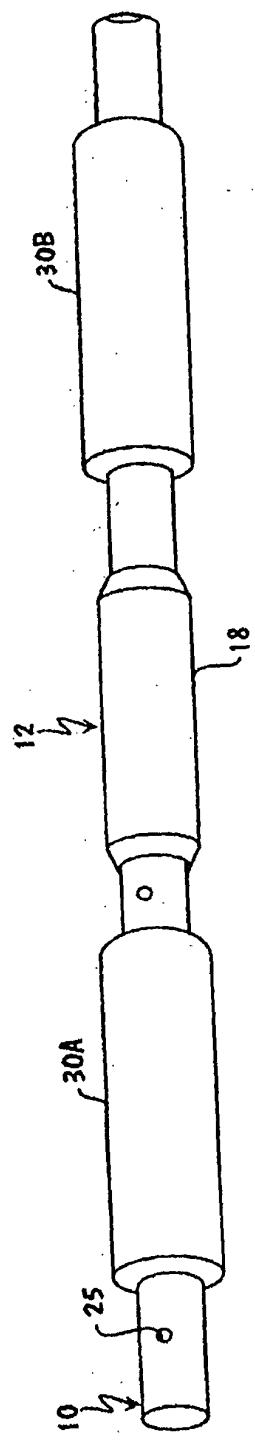
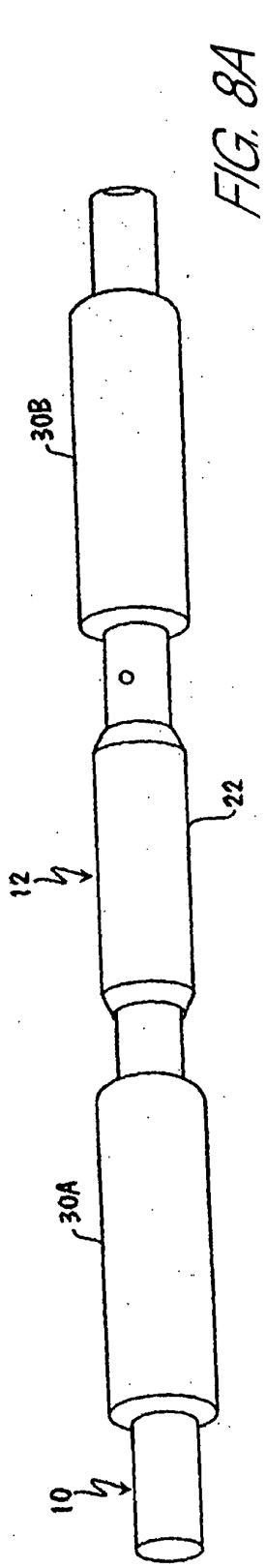


FIG. 7C

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3



ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

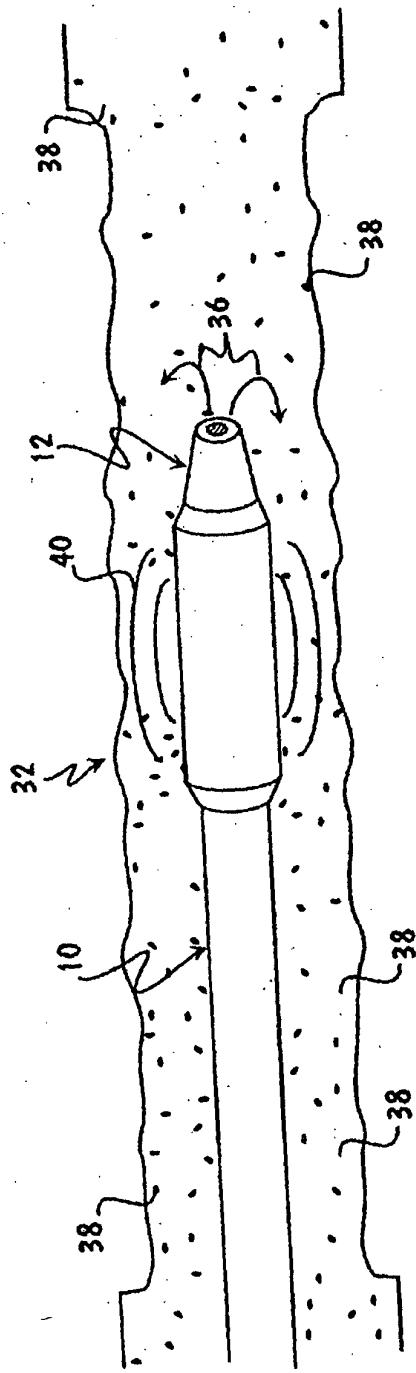


FIG. 9A

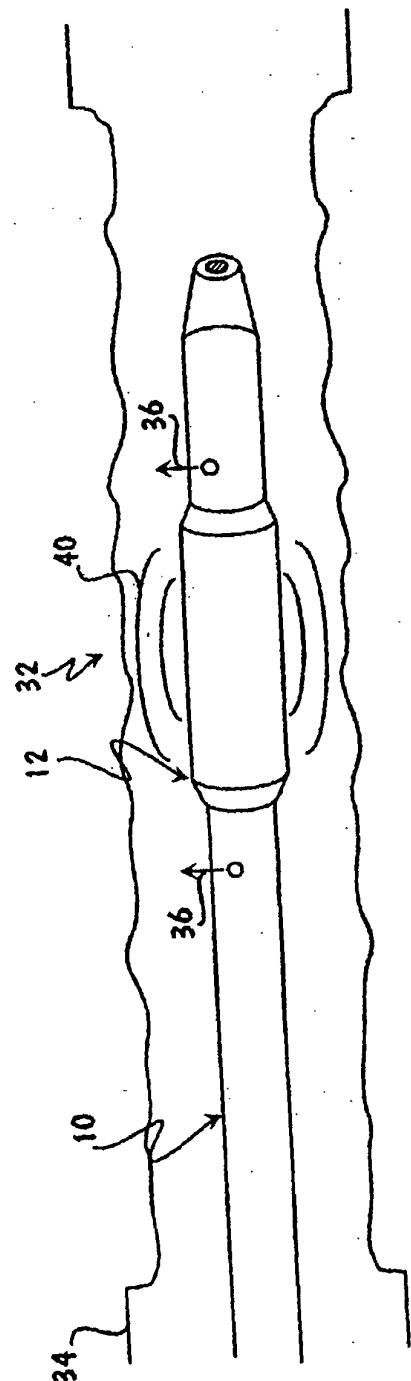


FIG. 9B

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

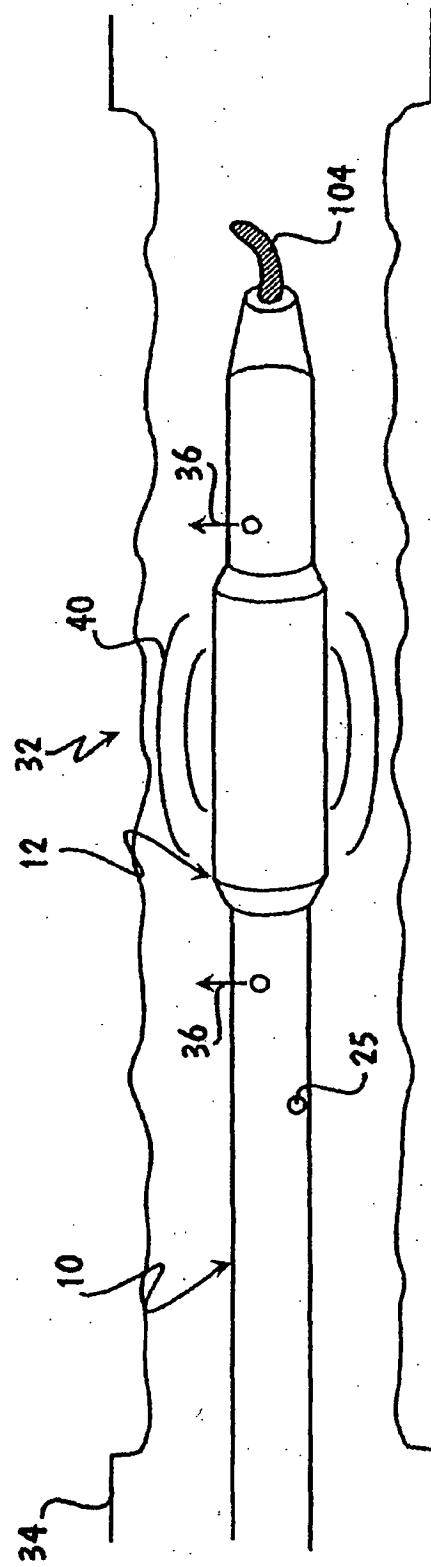


FIG. 9C

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

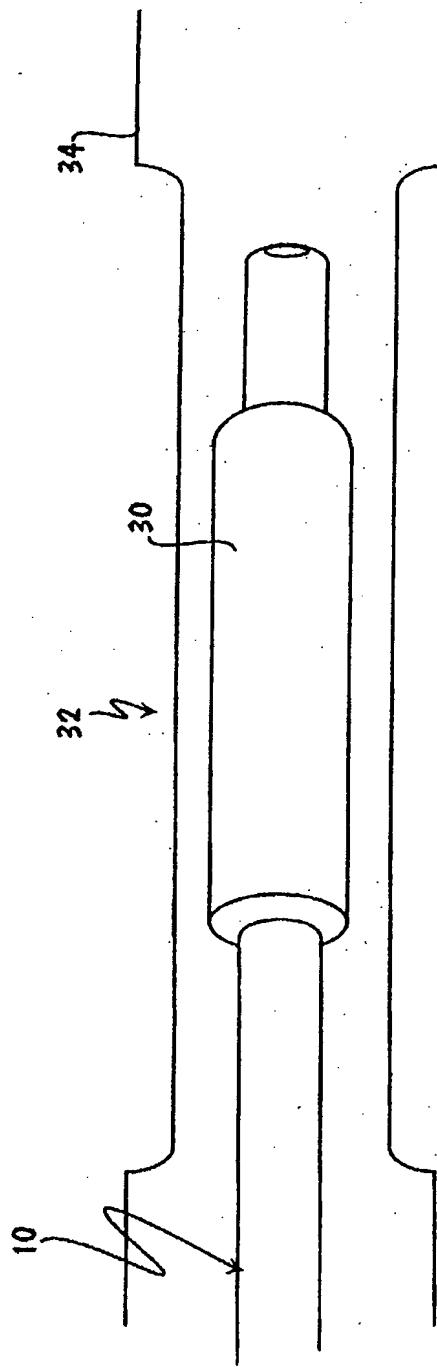


FIG. 9D

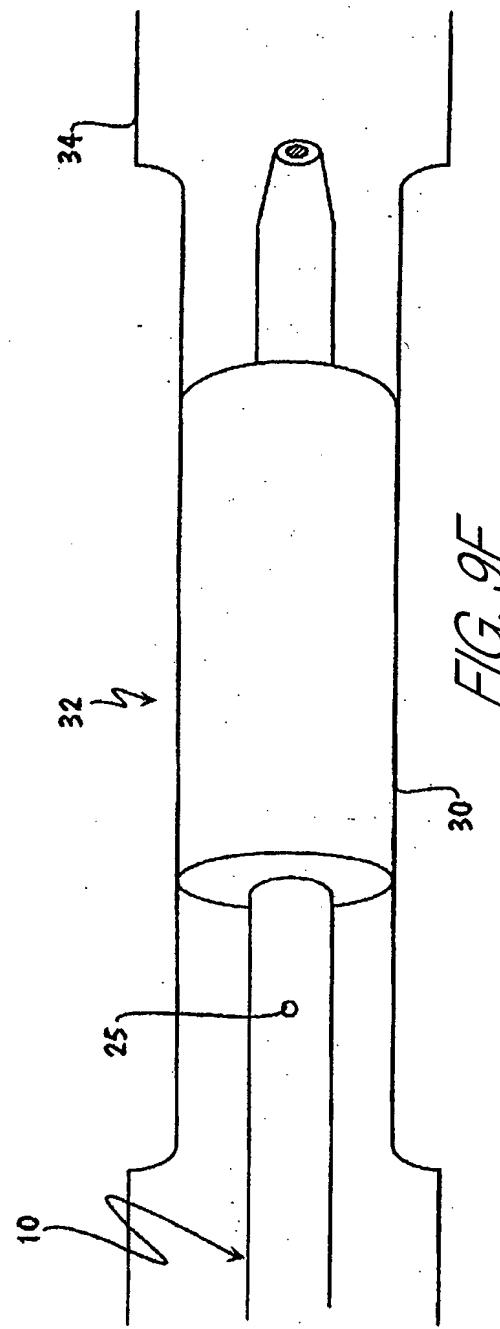


FIG. 9E

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

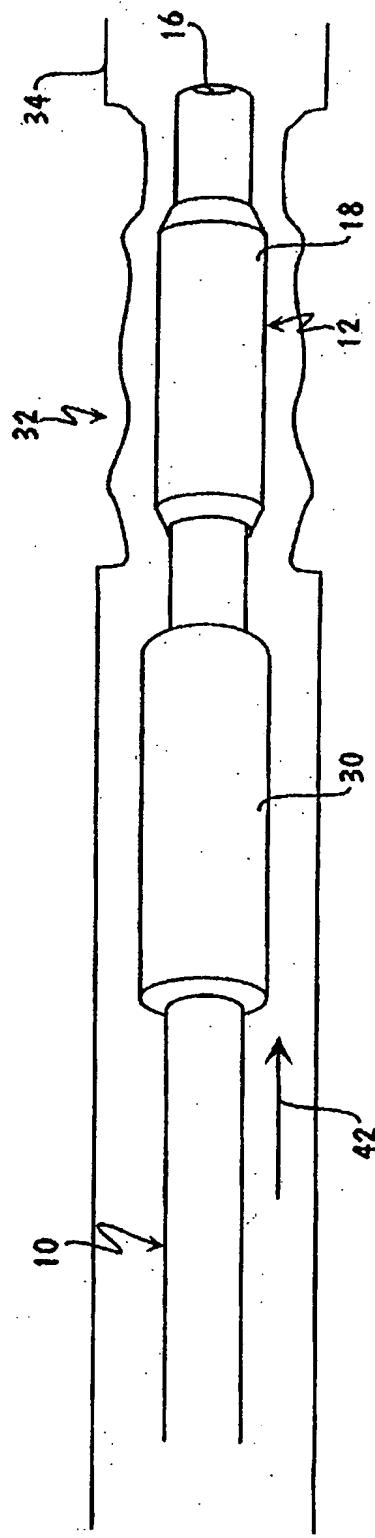


FIG. 9F

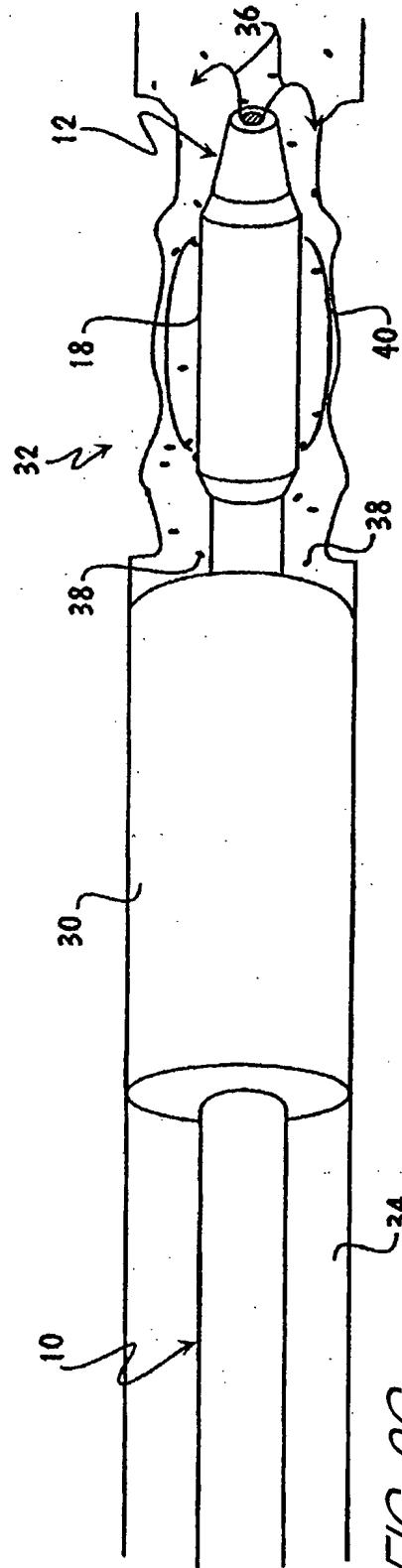


FIG. 9G

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

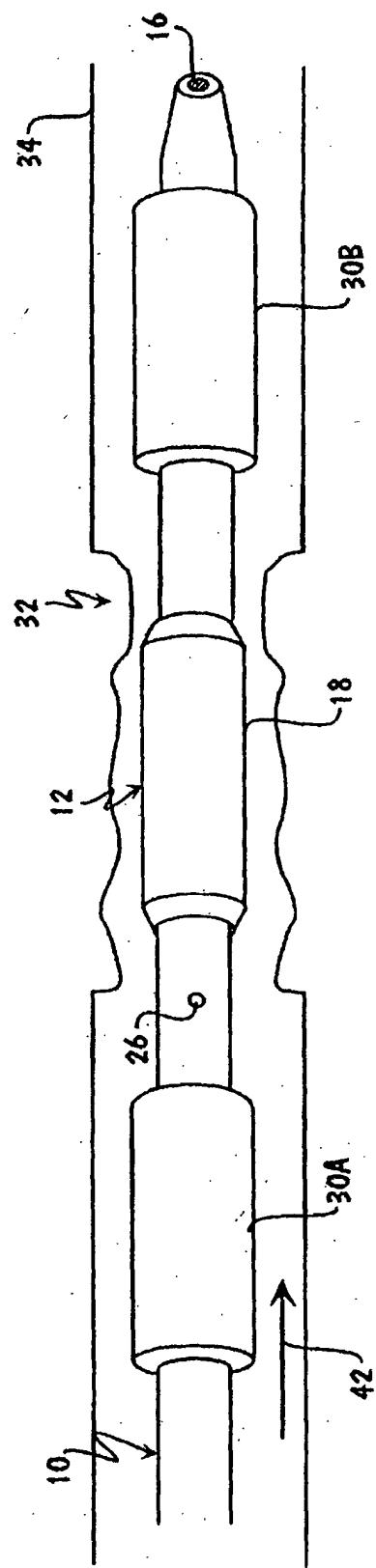


FIG. 9H

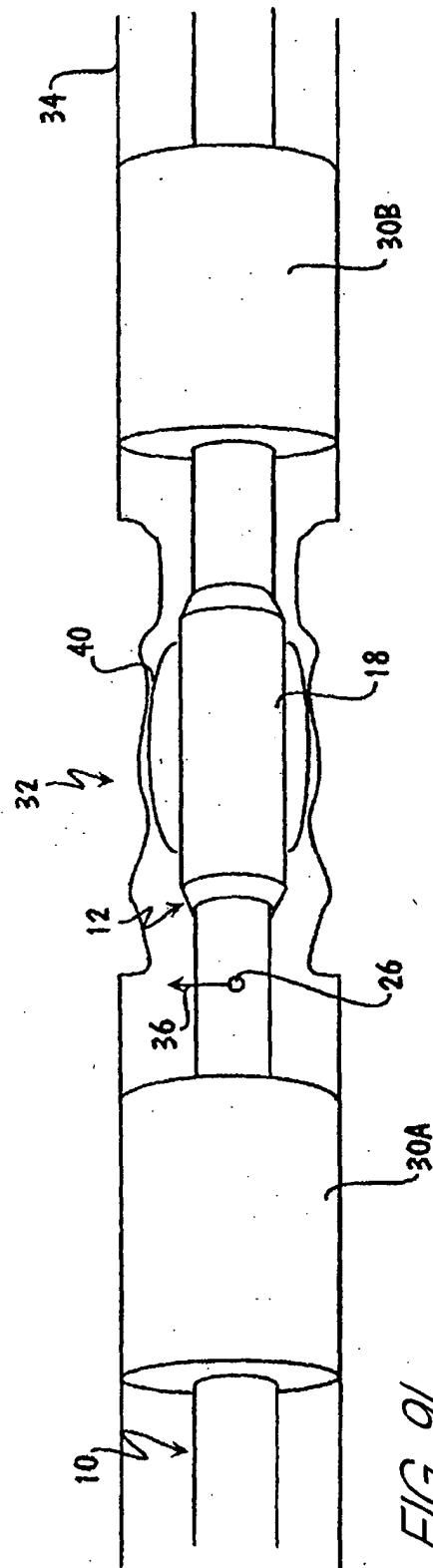
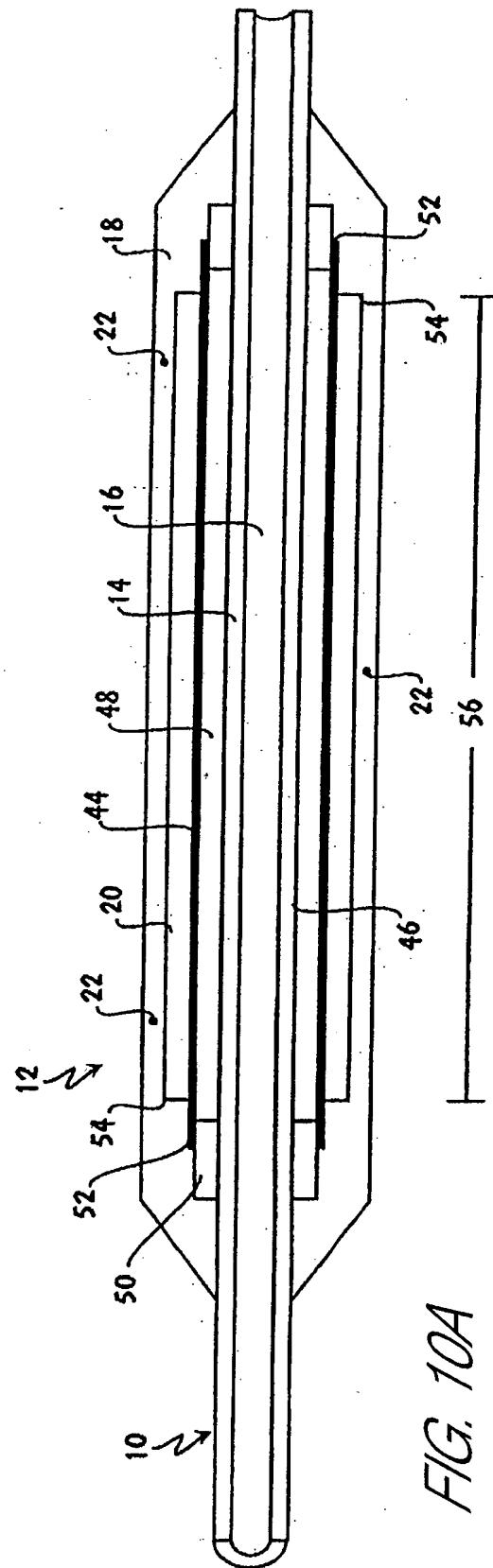
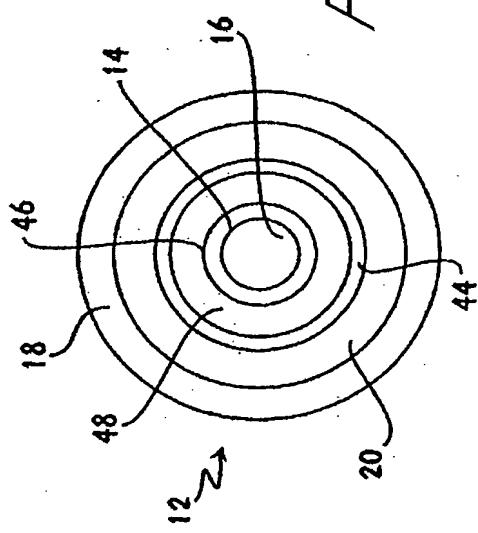


FIG. 9I

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3



ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

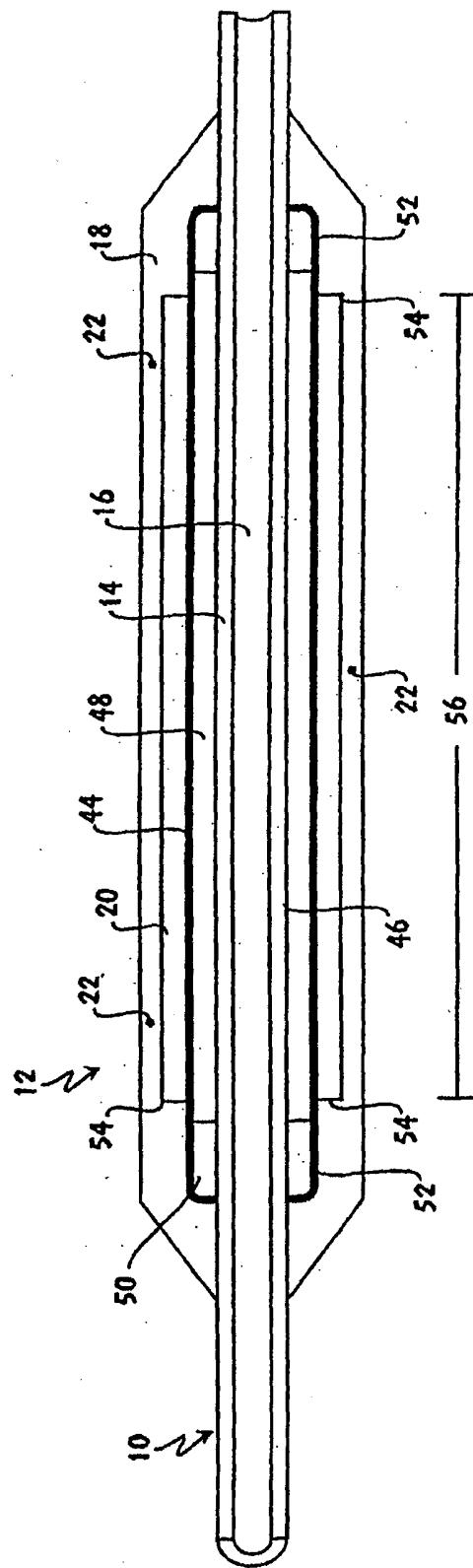


FIG. 10C

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

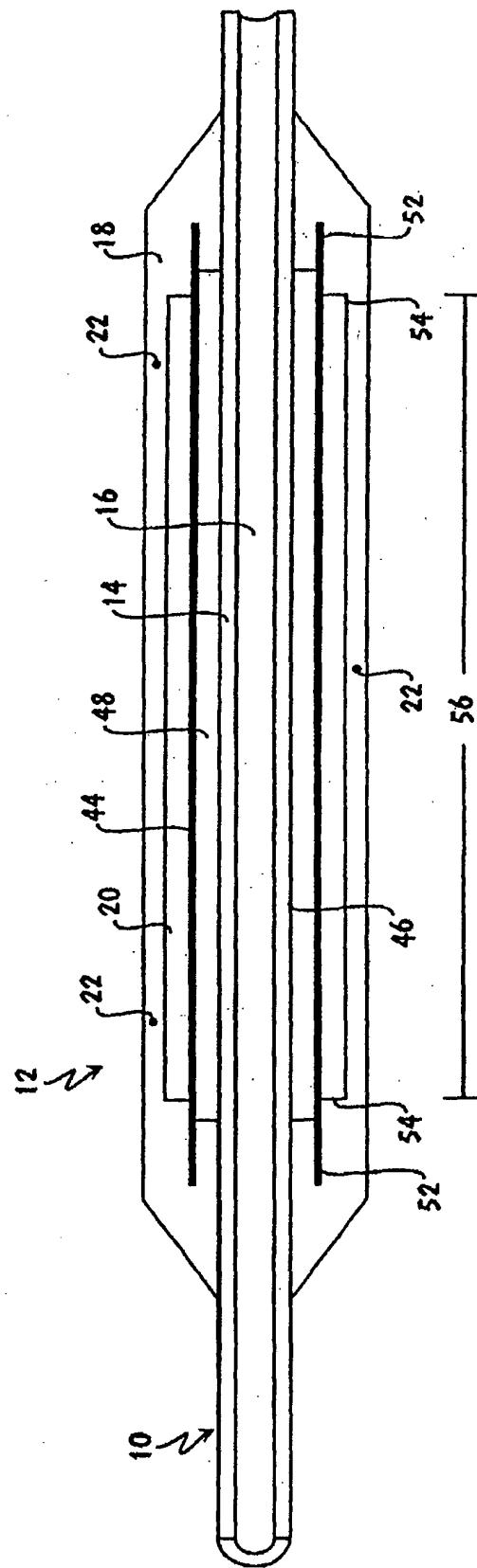


FIG. 10D

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

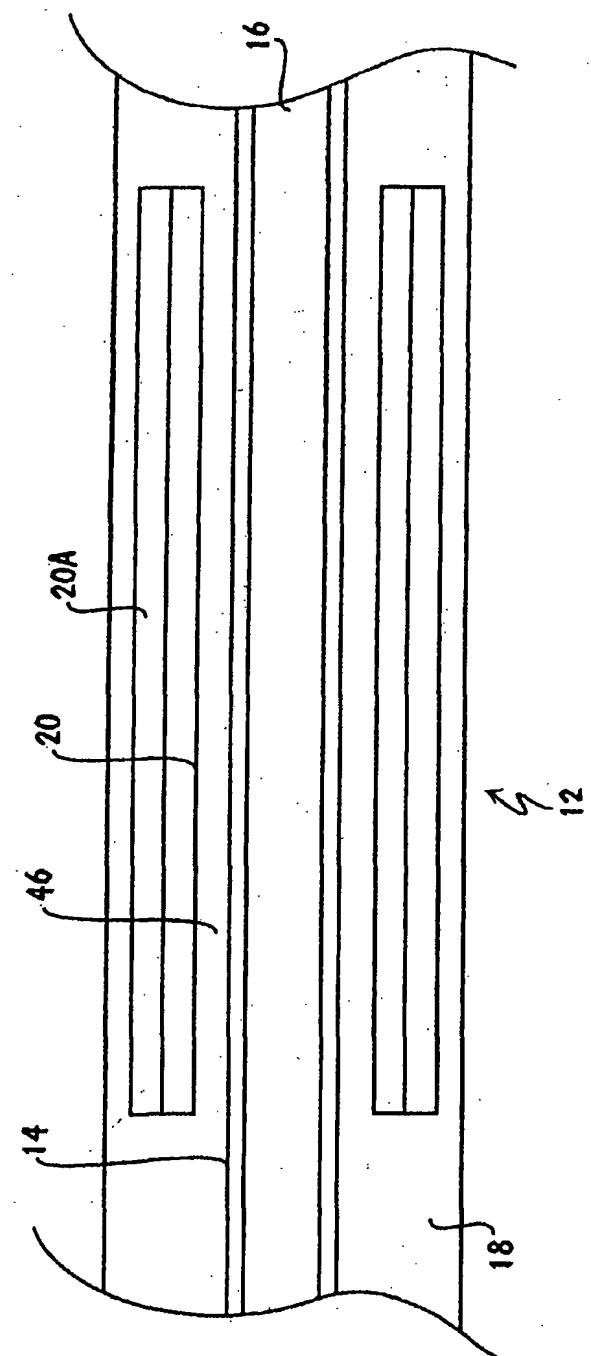


FIG. 11A

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

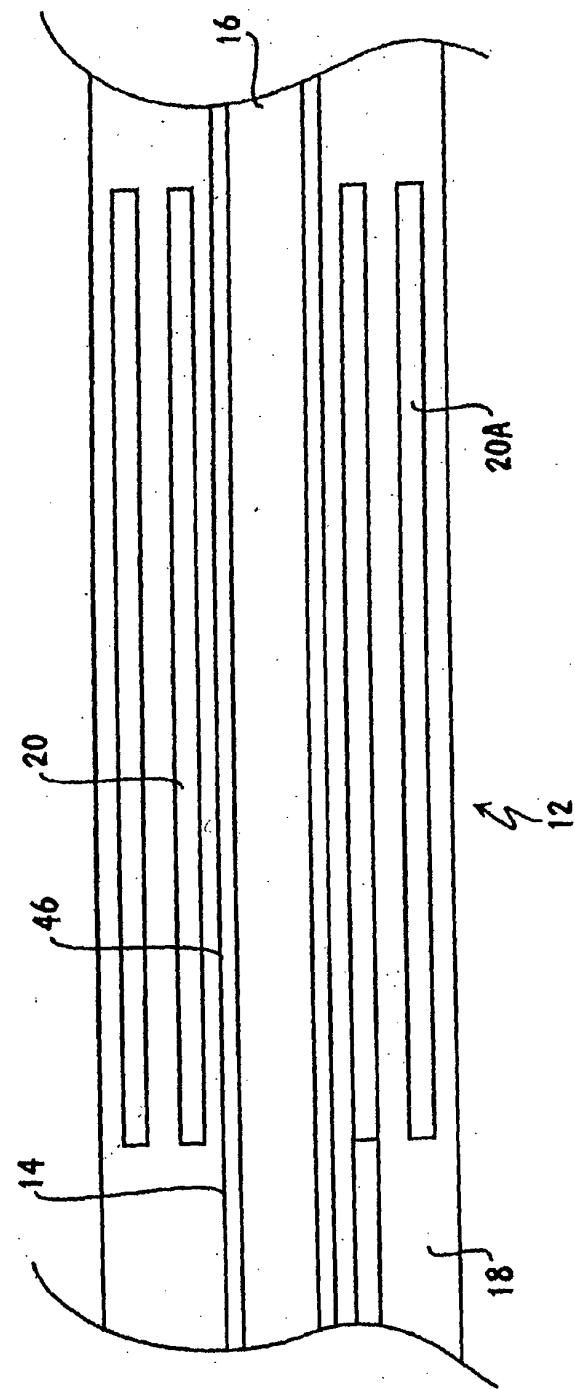


FIG. 11B

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

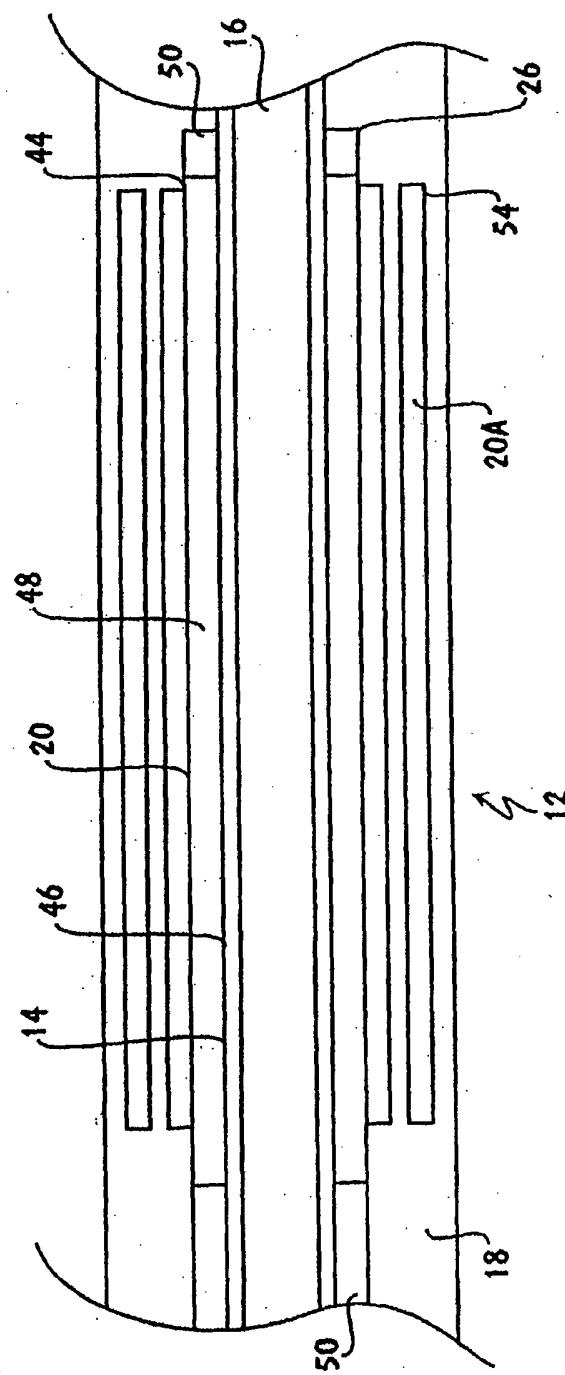
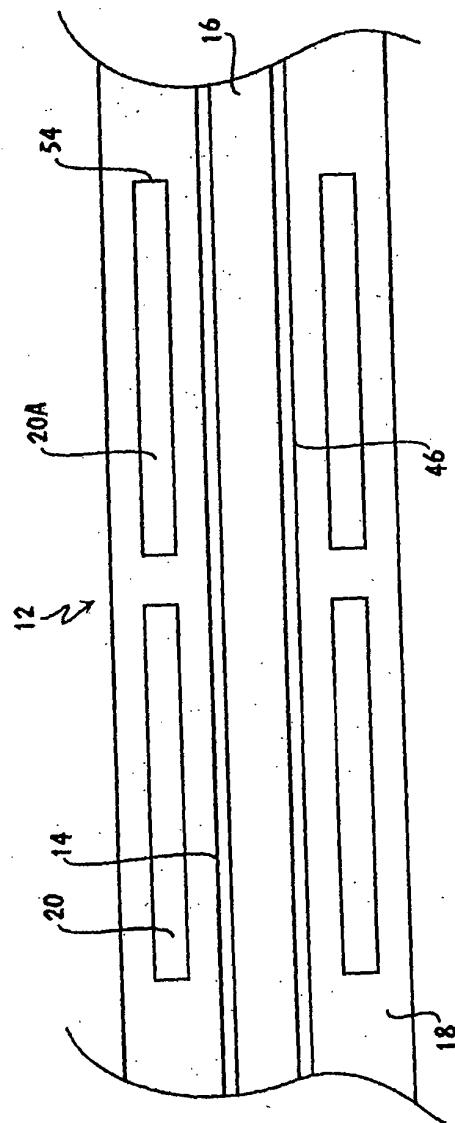


FIG. 11C

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS

Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3



ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED

DRUGS

Katsuro Tachibana, et al.

Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

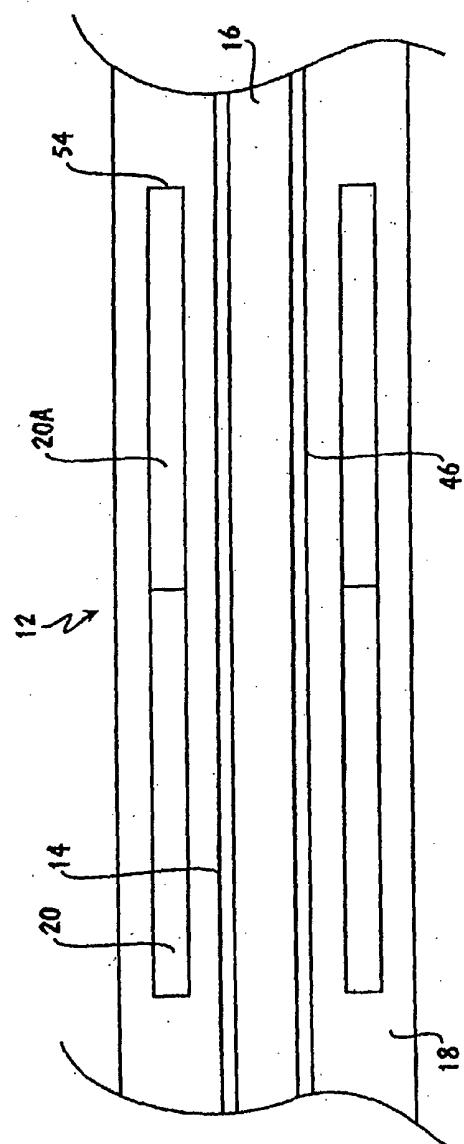


FIG. 11E

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS

Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

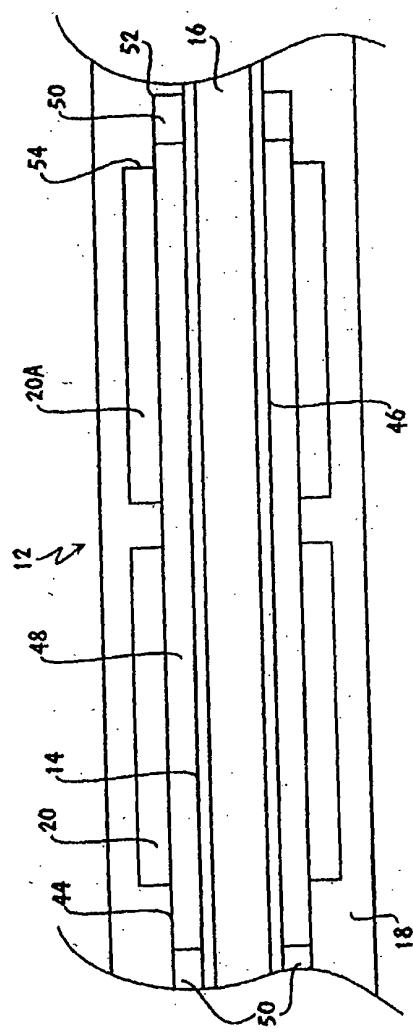


FIG. 11F

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

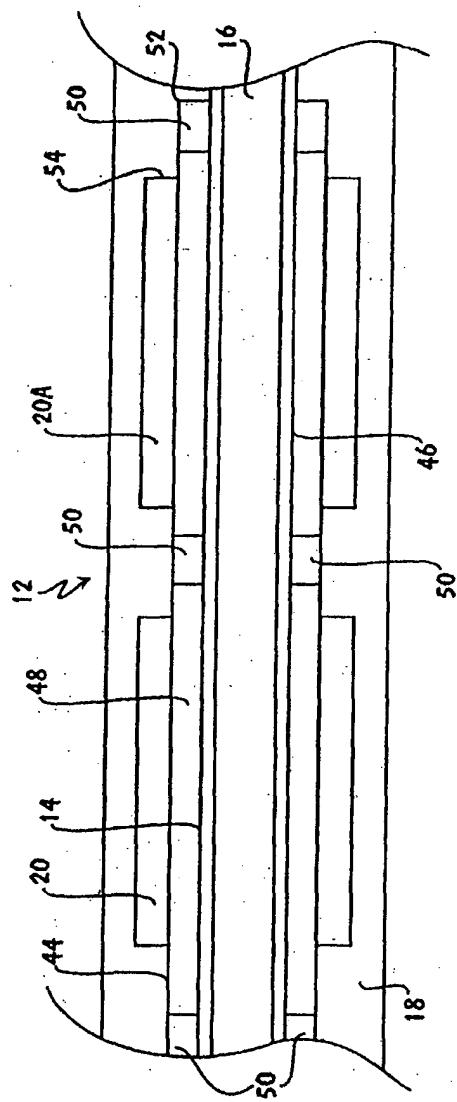


FIG. 11G

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED

DRUGS

Katsuro Tachibana, et al.

Appl. No.: Unknown

Atty Docket: EKOS.8CP3DV1C3

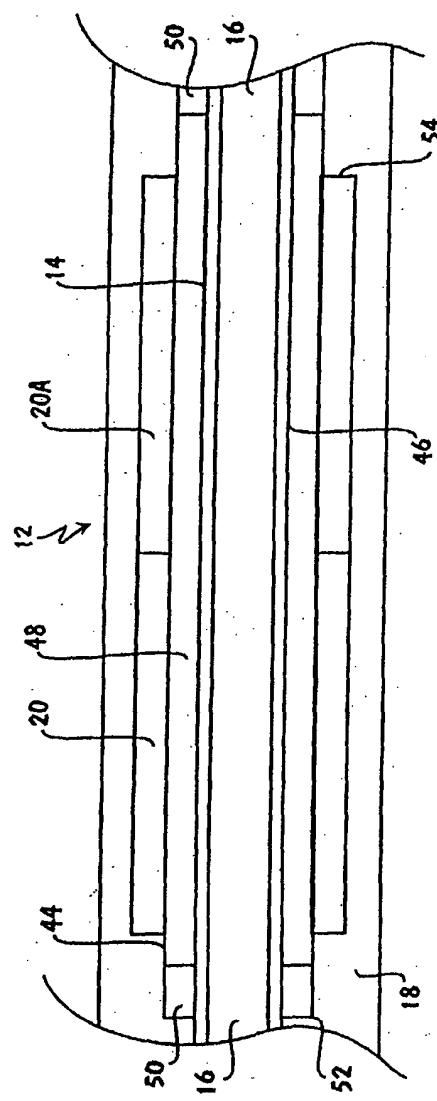


FIG. 11H

# ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED DRUGS

DRUGS

Katsuro Iachibana, et al.

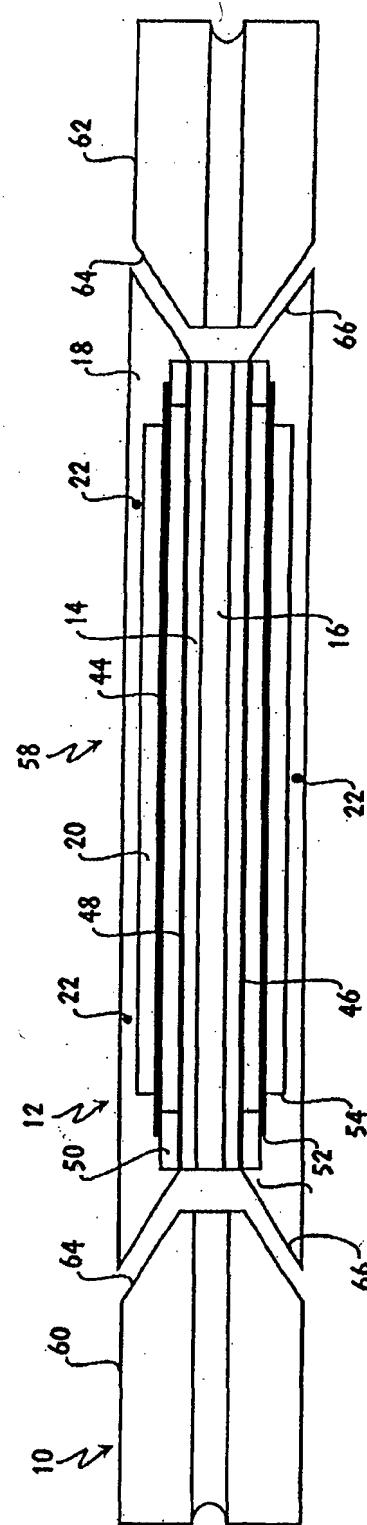


FIG. 12A

## ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED DRUGS

*Katsuro Tachibana, et al.*  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

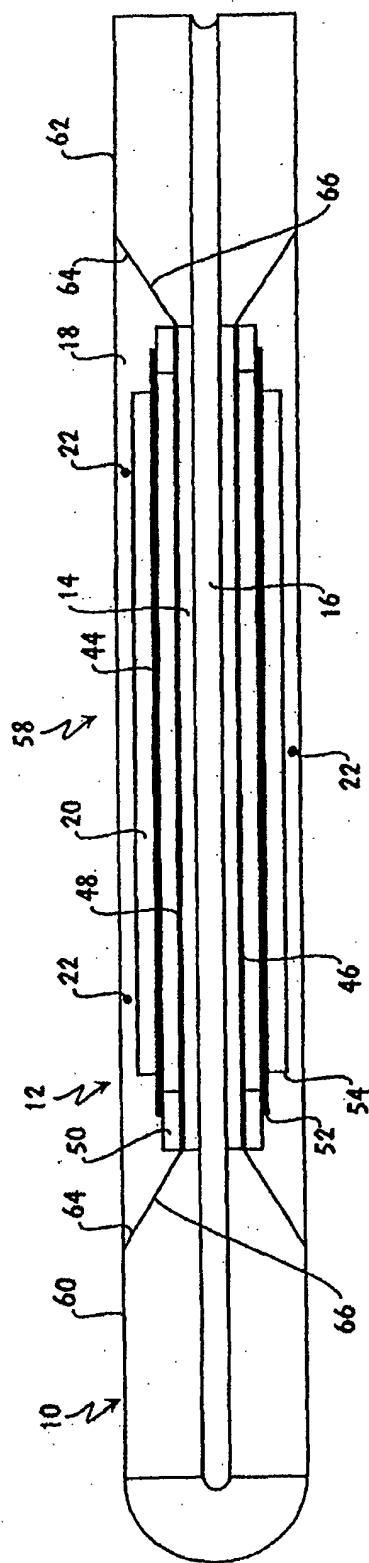


FIG. 12B

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

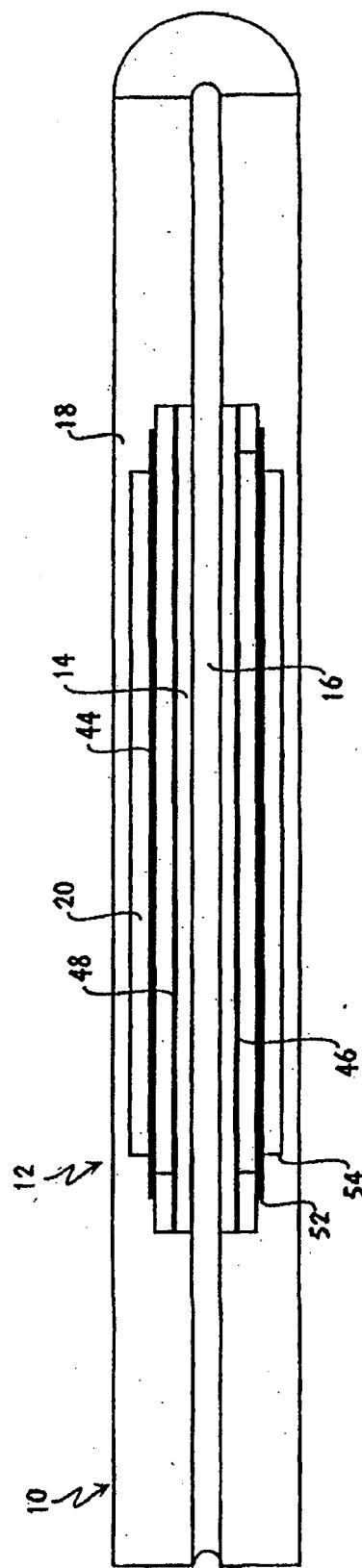


FIG. 12C

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS

Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

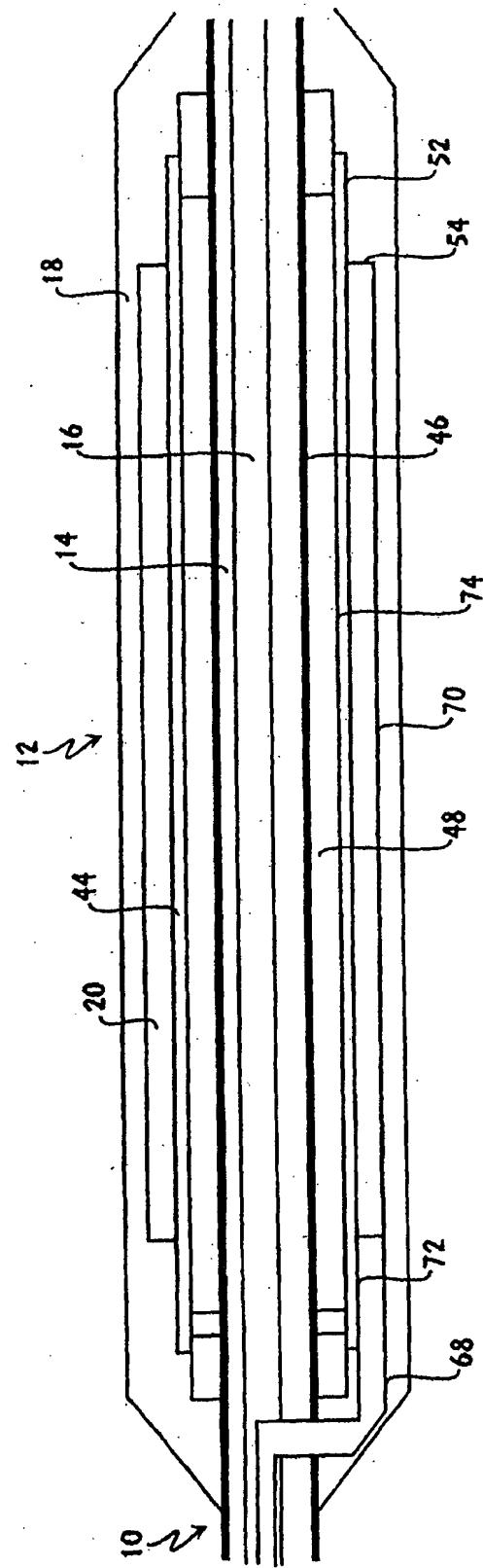


FIG. 13A

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

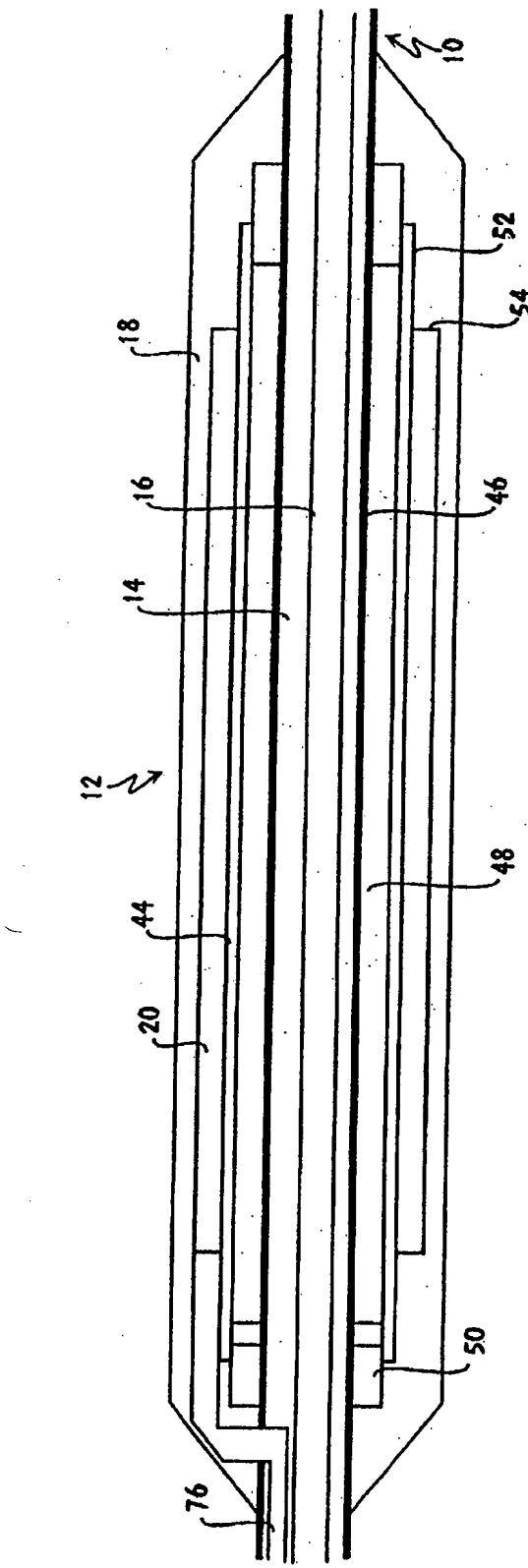


FIG. 13B

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS

Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

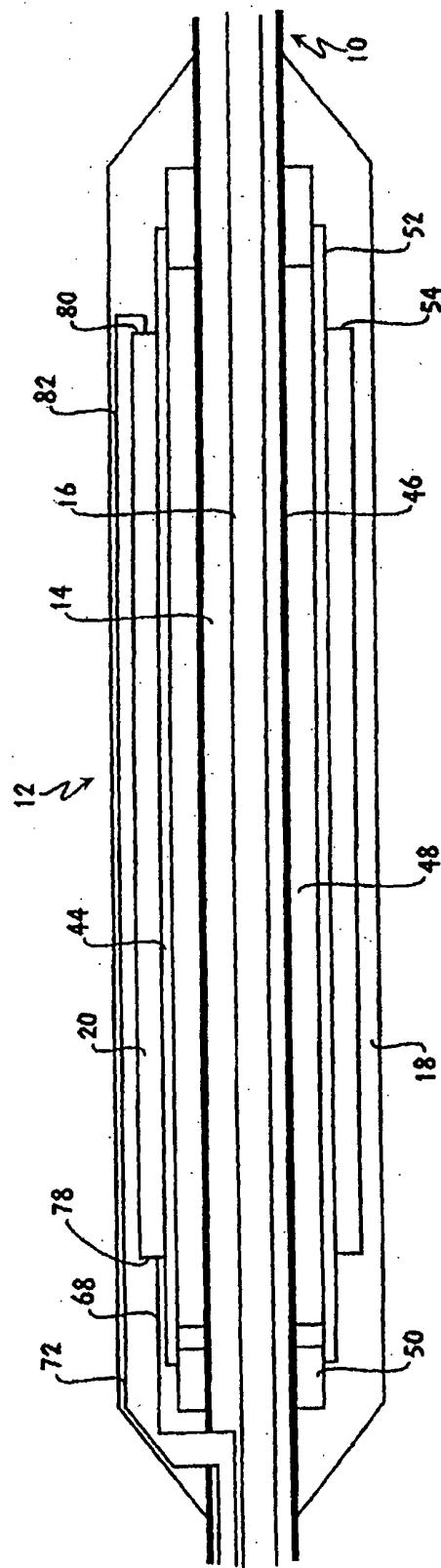


FIG. 13C

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

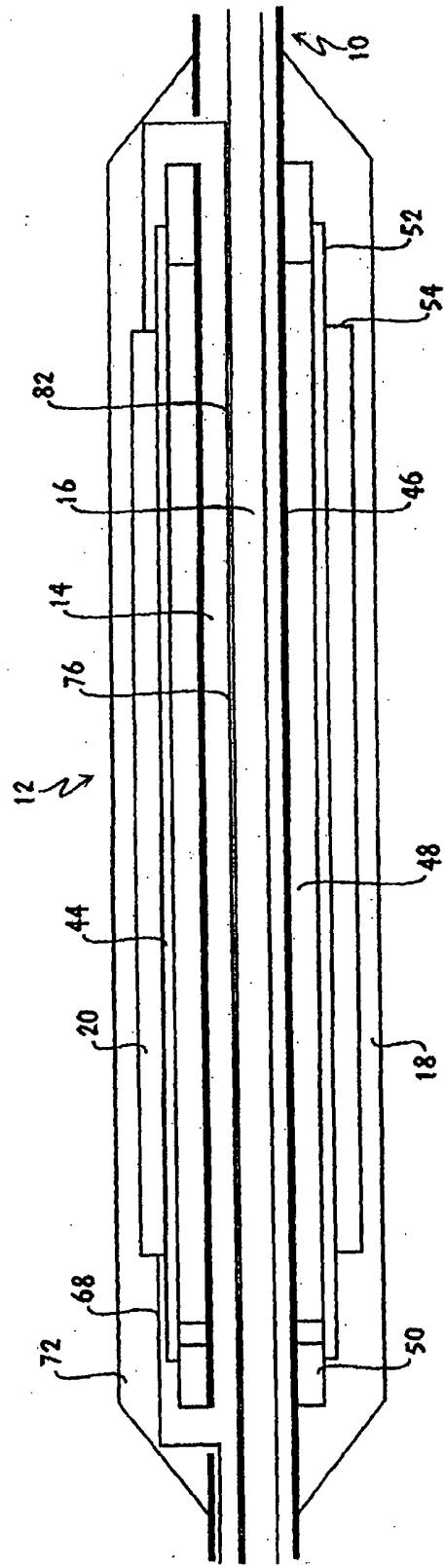


FIG. 13D

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

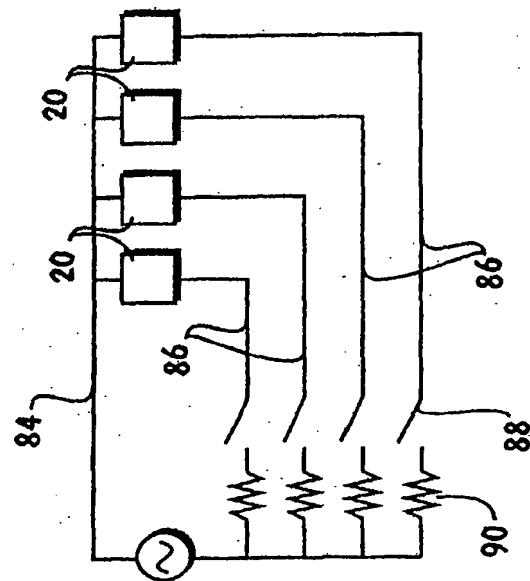


FIG. 14C

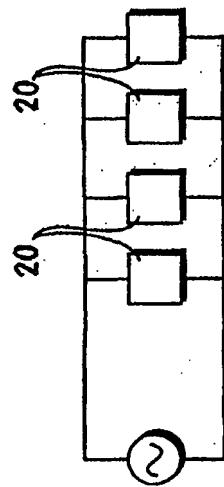


FIG. 14A

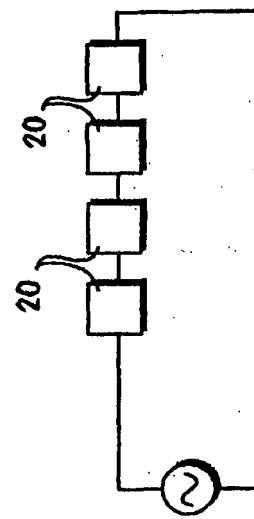


FIG. 14B

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

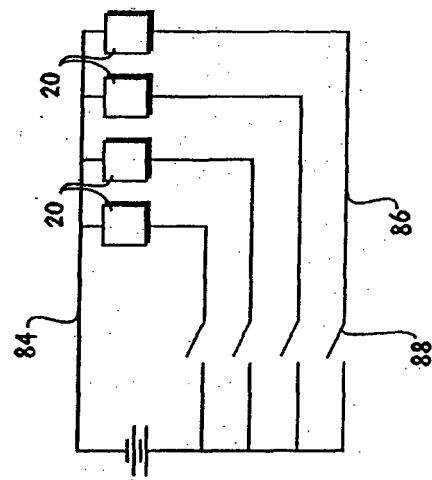


FIG. 15

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

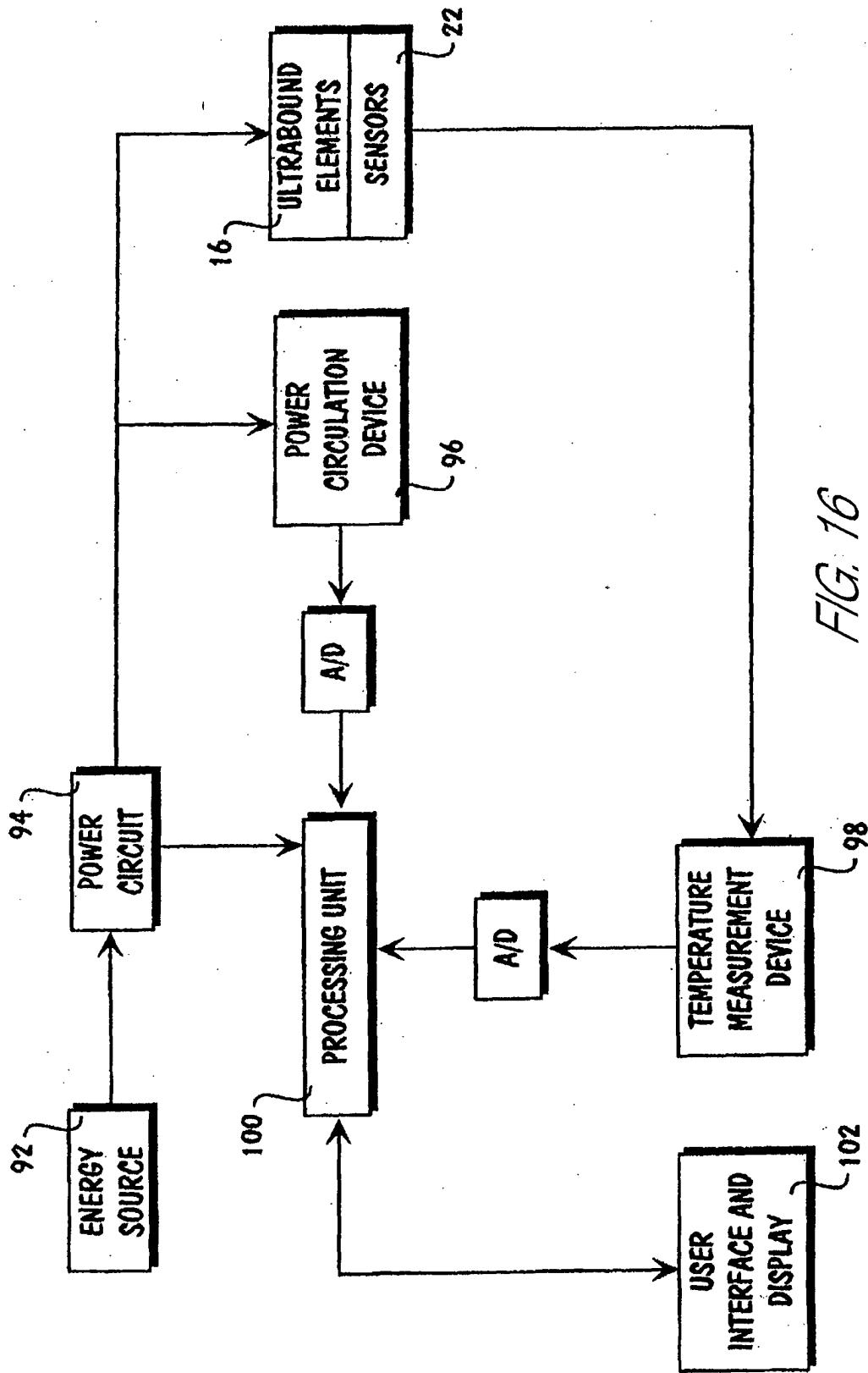
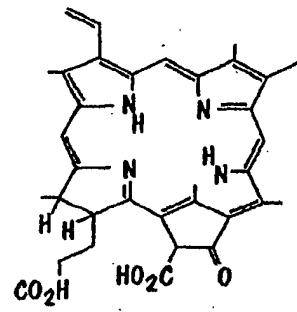


FIG. 16

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

CHLORINA  
NATURALLY OCCURRING:

FIG. 17C

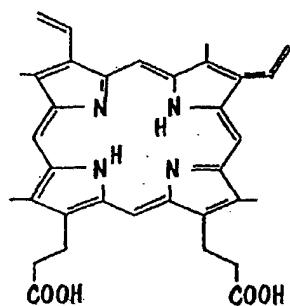


PHEOPHORBIDE

FIG. 17A

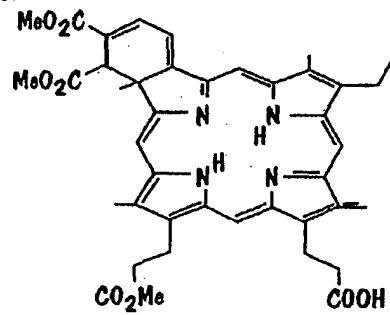
PORPHYRINA:

NATURALLY OCCURRING:



PROTOPORPHYRIA IX

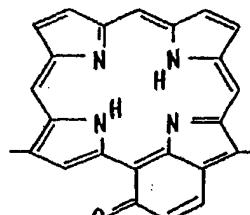
SYNTHETIC:



BPD MONO ACID RING A

FIG. 17D

SYNTHETIC:



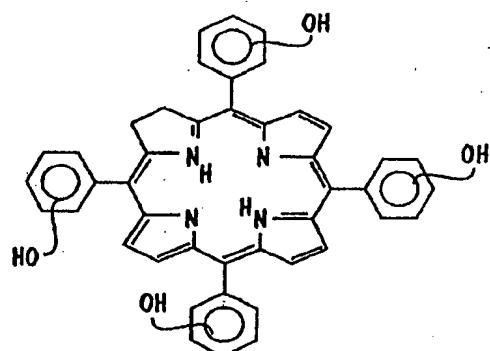
VERDIA

FIG. 17B

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

FIG. 17E

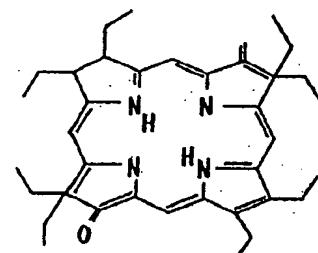
SYNTHETIC:



MESO-TETRA (HYDROXYPHENYL)  
CHLORIN

FIG. 17H

SYNTHETIC:

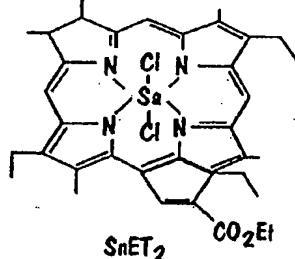


OCTAETHYLDIOXBACTERIOCHLORIN

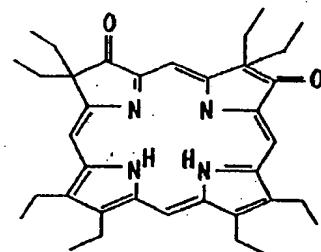
SYNTHETIC ISOBACTERIOCHLORIN:

FIG. 17F

SYNTHETIC:



S<sub>n</sub>ET<sub>2</sub> CO<sub>2</sub>Et



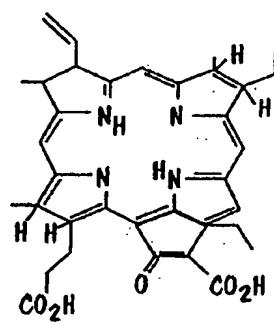
OCTAETHYLDIOXBACTERIOCHLORIN

FIG. 17I

BACTERIACHLORINA:

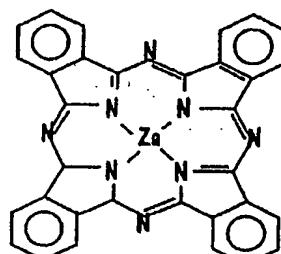
NATURALLY OCCURRING:

FIG. 17G



BACTACIOPHAPHORBIDE

PHTHALOCYARINEA:



ZINC PHTHALOCYANINE

FIG. 17J

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

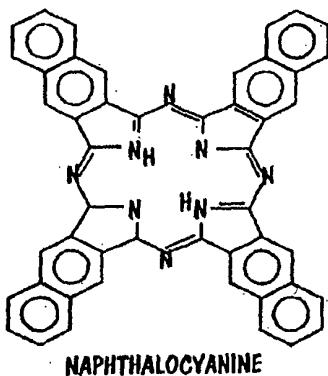


FIG. 17K

PORPHYCENES:

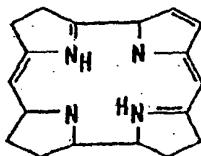


FIG. 17L

SAPPHYRINS:

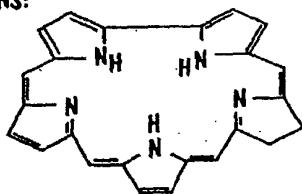


FIG. 17M

TEXAPHYRIAS:

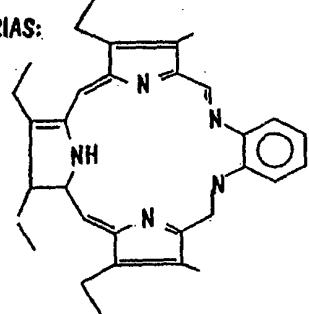


FIG. 17N

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

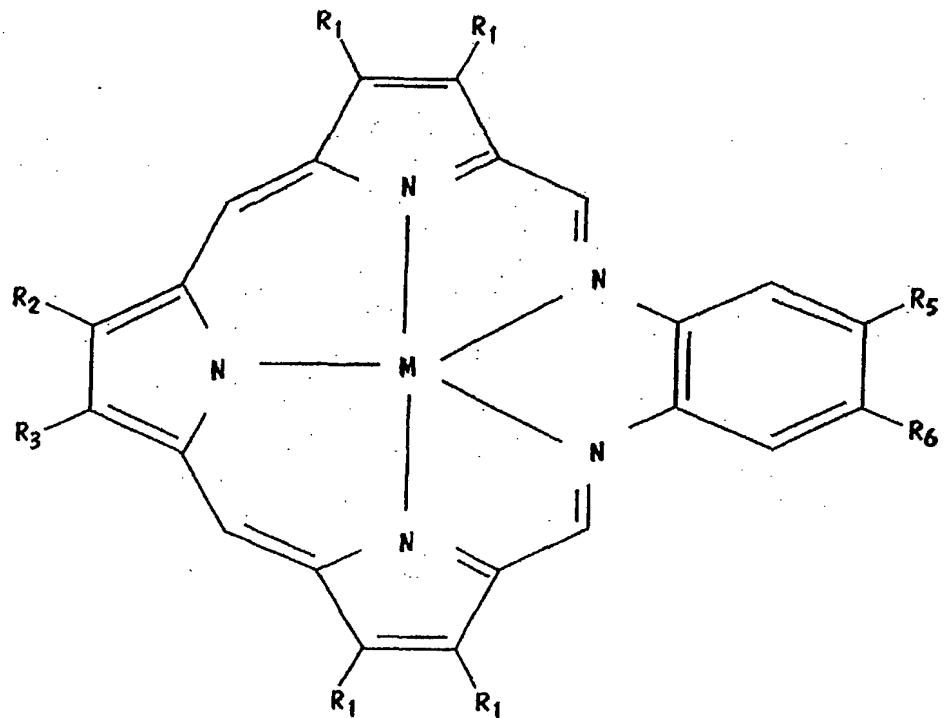


FIG. 17B-2

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED DRUGS

Katsuro Tachibana, et al.

Appl. No.: Unknown

Atty Docket: EKOS.8CP3DV1C3

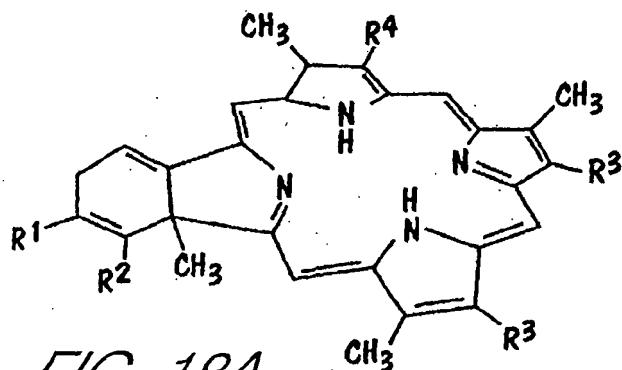


FIG. 18A

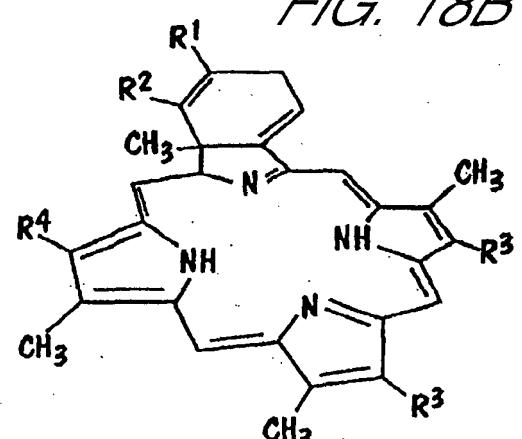


FIG. 18B

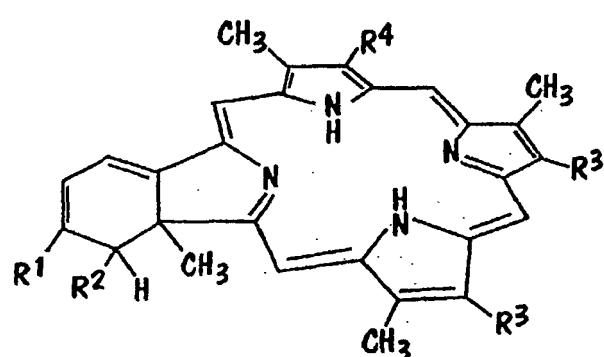


FIG. 18C

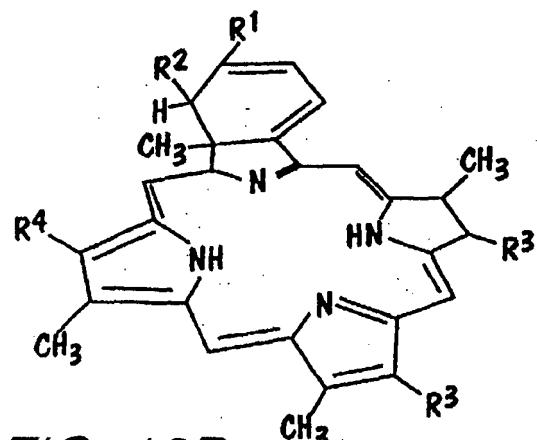
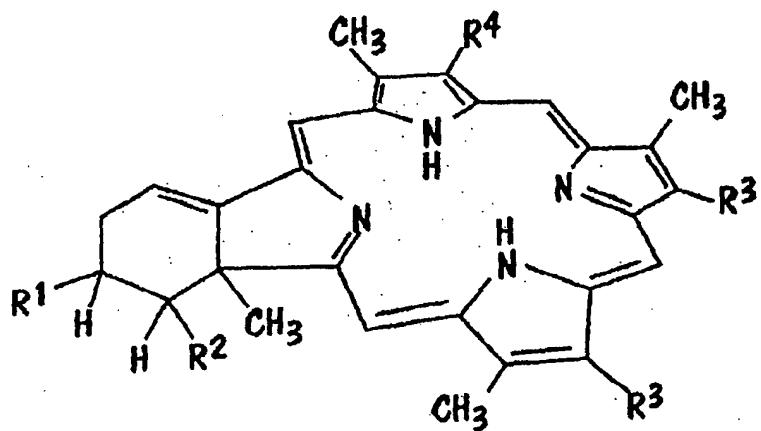


FIG. 18D

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS

Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

FIG. 18E



OR

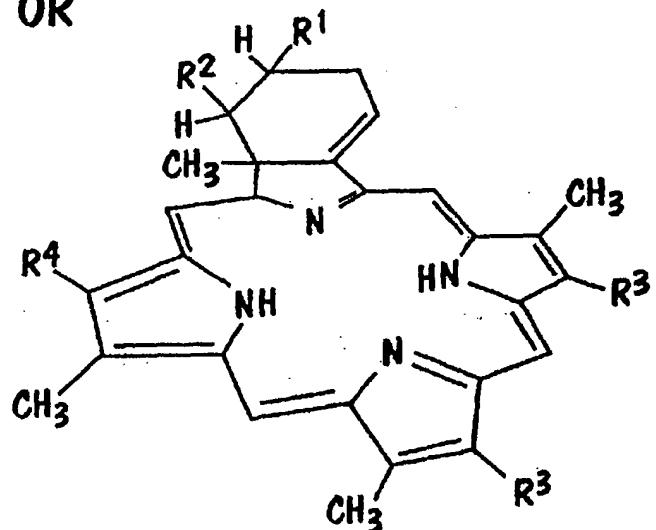


FIG. 18F

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED

DRUGS

Katsuro Tachibana, et al.

Appl. No.: Unknown

Atty Docket: EKOS.8CP3DV1C3

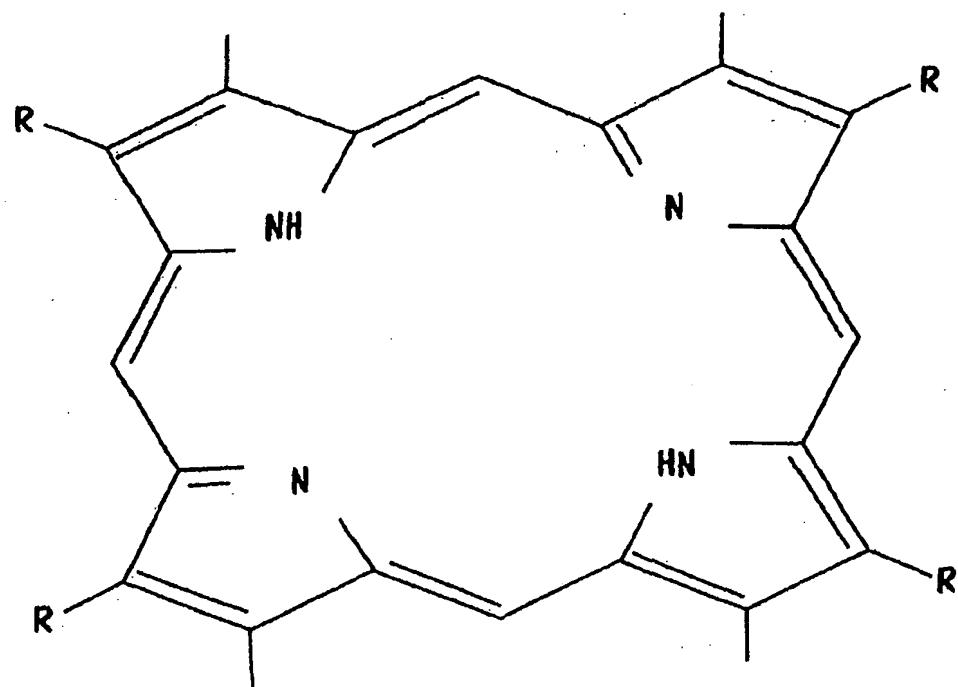
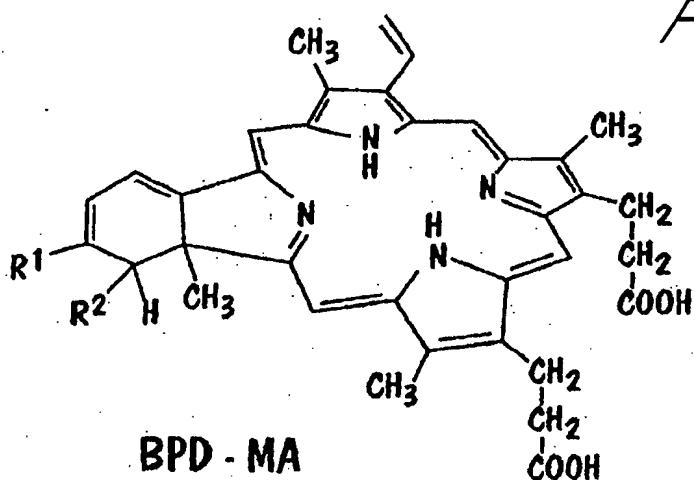


FIG. 19

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3



AND

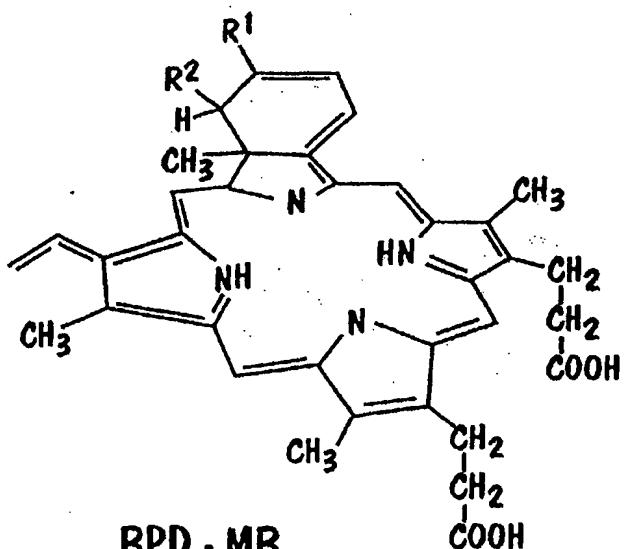
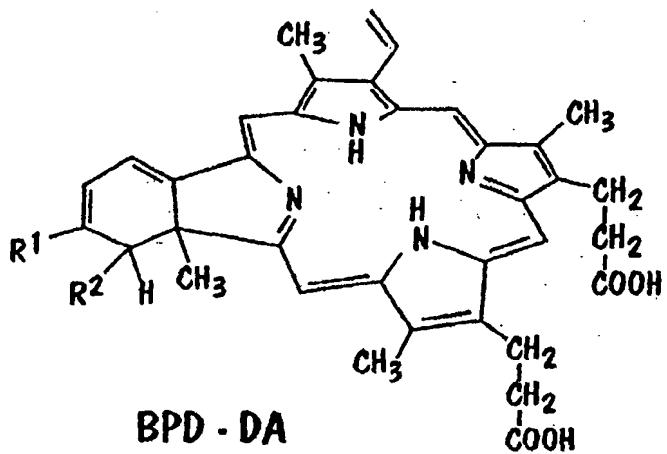


FIG. 20B

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

FIG. 20C



BPD - DA

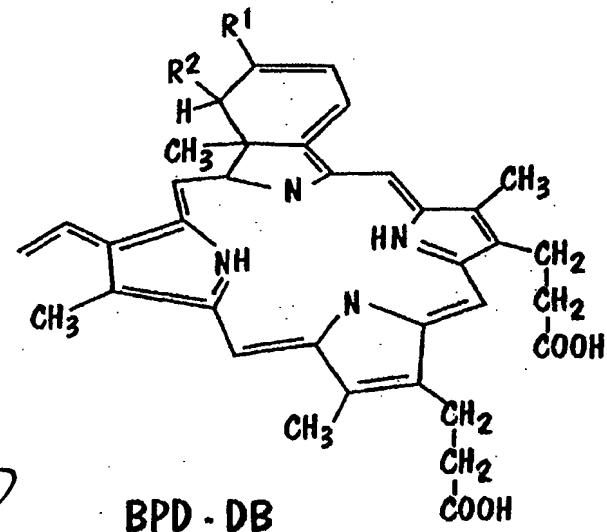
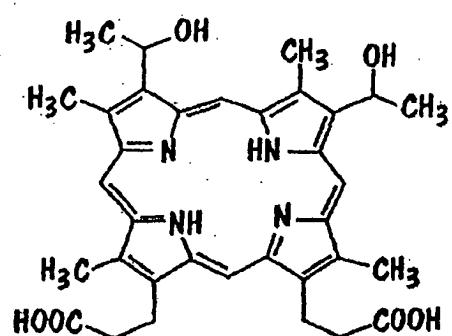


FIG. 20D

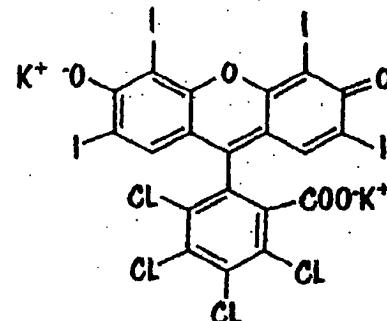
BPD - DB

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

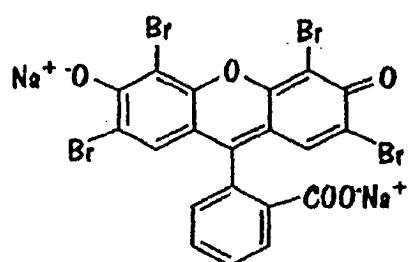
HEMATOPORPHYRIN  
[FORMULA A]



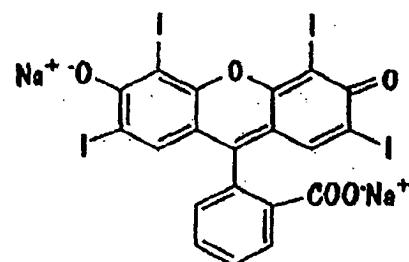
ROSE BENGAL  
[FORMULA B]



EROSIN Y  
[FORMULA C]



ERYTHROCIN  
[FORMULA D]



RHODAMINE B  
[FORMULA E]

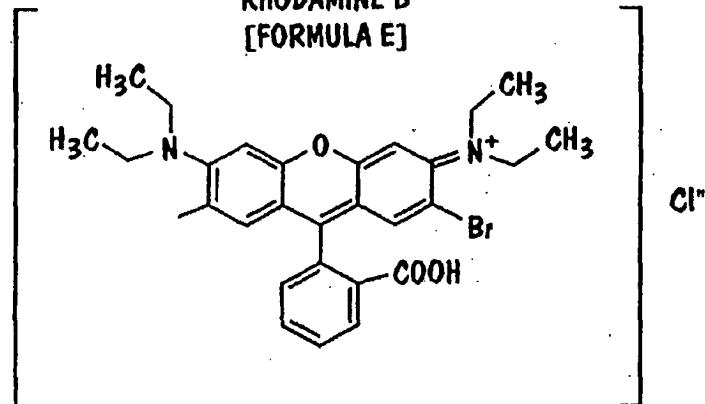


FIG. 21A

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED DRUGS

Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

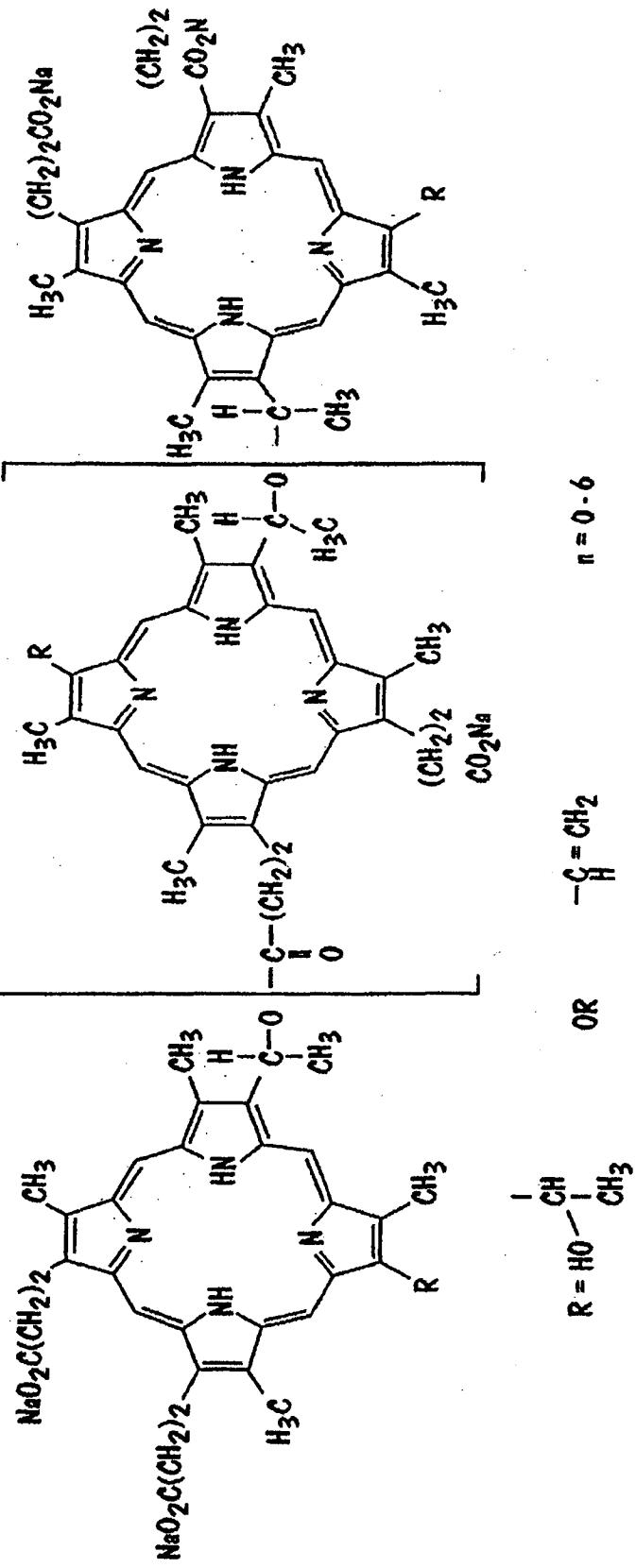


FIG. 21B

*ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED DRUGS*  
*Katsuro Tachibana, et al.*  
*Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3*

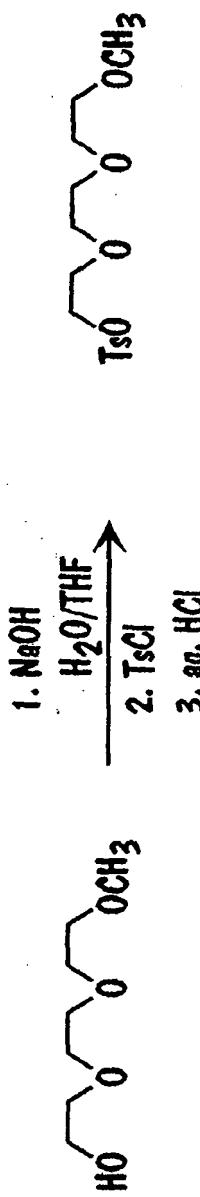


FIG. 22A

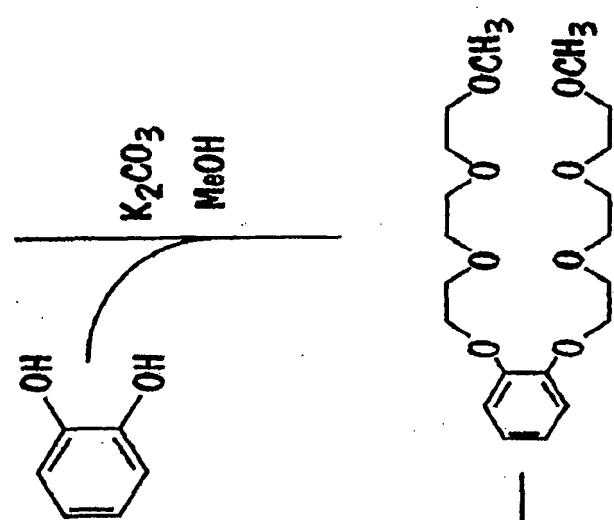


FIG. 22C

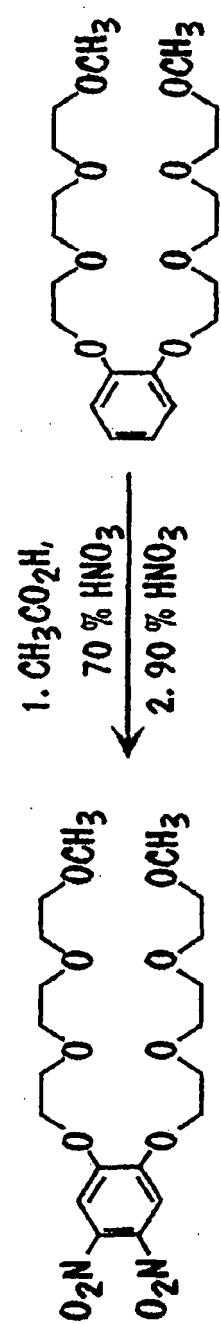


FIG. 22E



ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

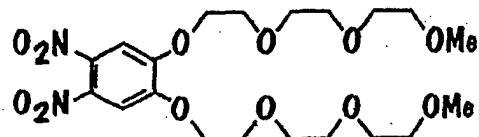


FIG. 22E

HYDRAZINE HYDRATE,  
10% Pd/C, EtOH

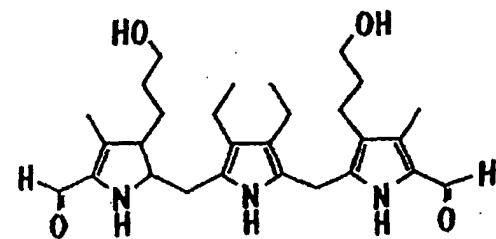
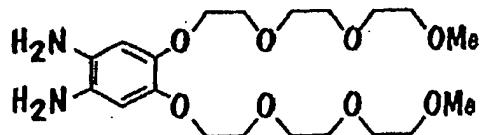


FIG. 22F

FIG. 22G

1.2 eq 12M HCl,  
MeOH

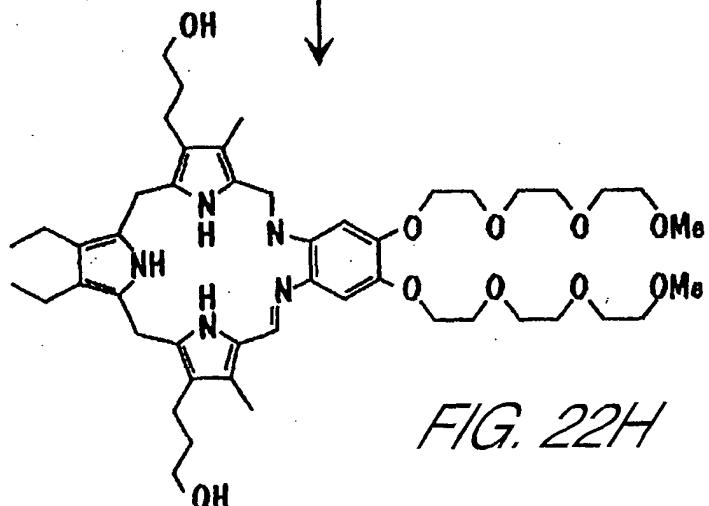


FIG. 22H

## ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED DRUGS

DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

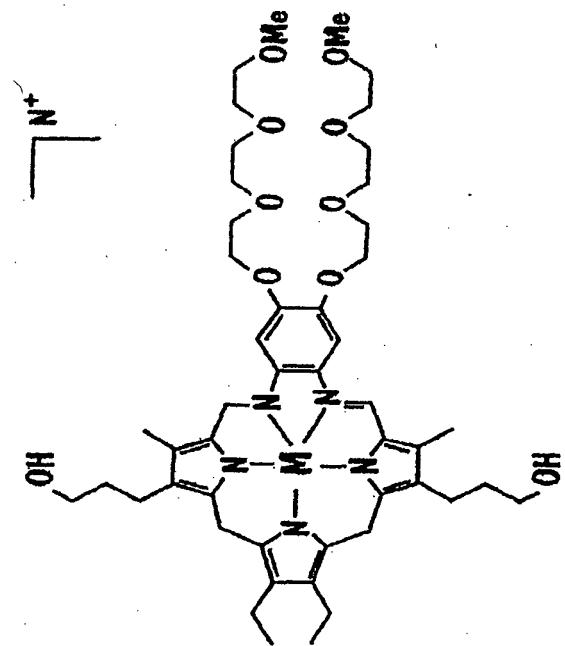


FIG. 221

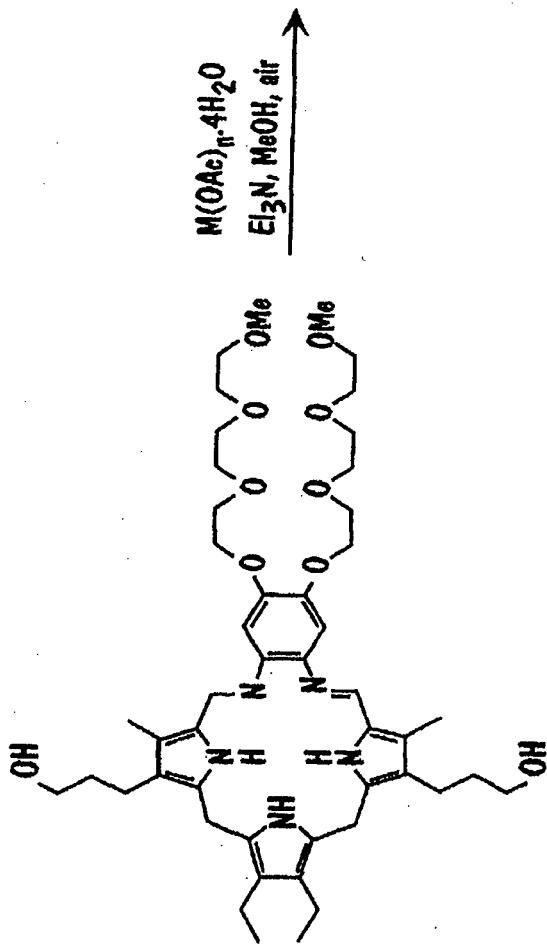


FIG. 22H

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

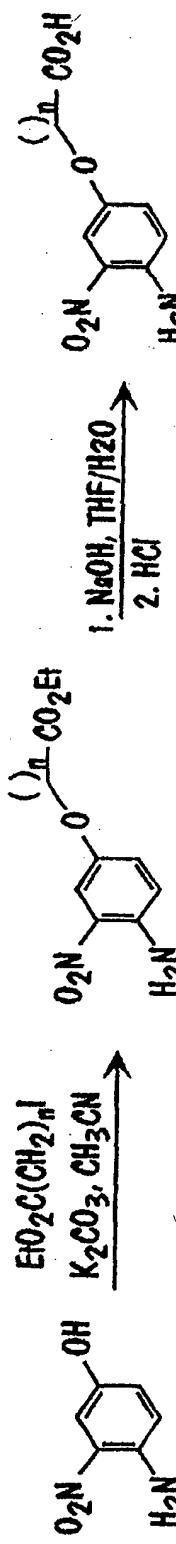
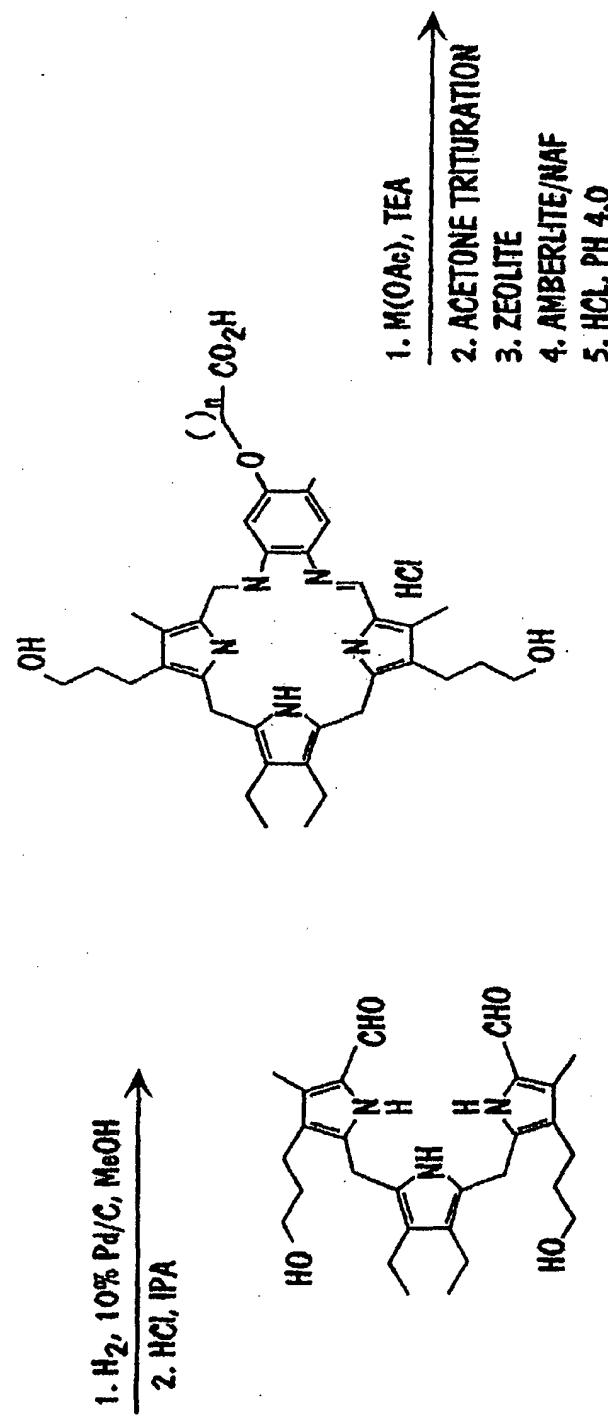
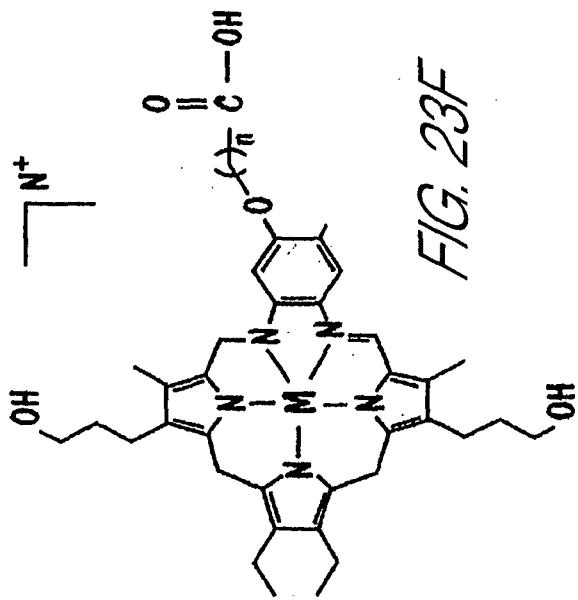


FIG. 23C

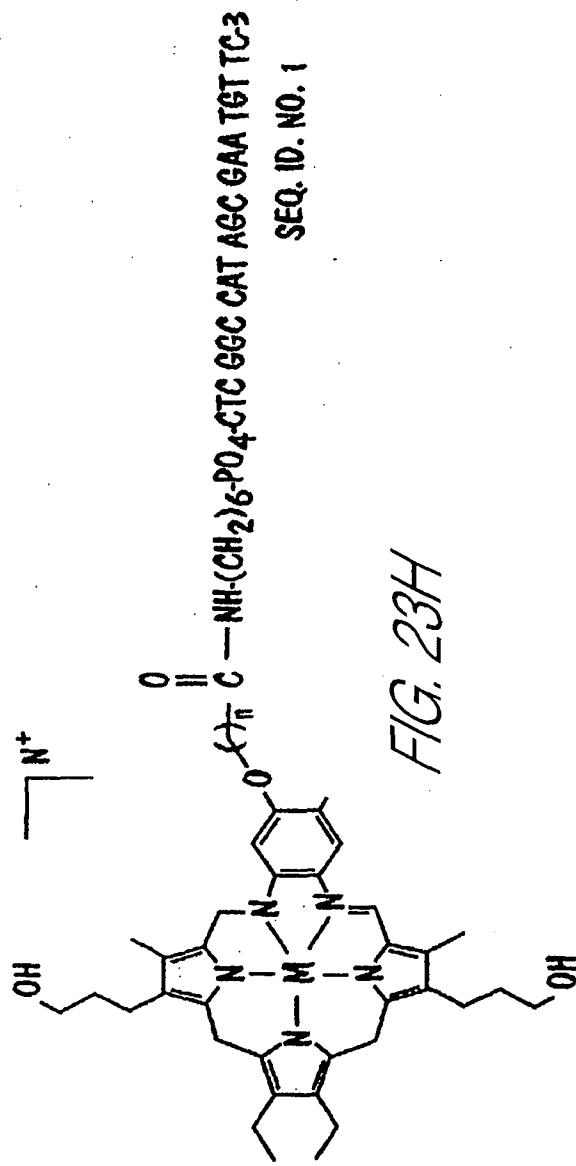


ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3



1. NHS, DCC, DMF  
2. 5'-NH<sub>2</sub>-(CH<sub>2</sub>)<sub>6</sub>-PO<sub>4</sub>-CTC-GGC-CAT-AGC-GAA-TCT-TG<sub>3</sub>  
(0.4 M NaHCO<sub>3</sub>, pH 8.6) SEQ. ID. NO. 1

FIG. 23G



ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

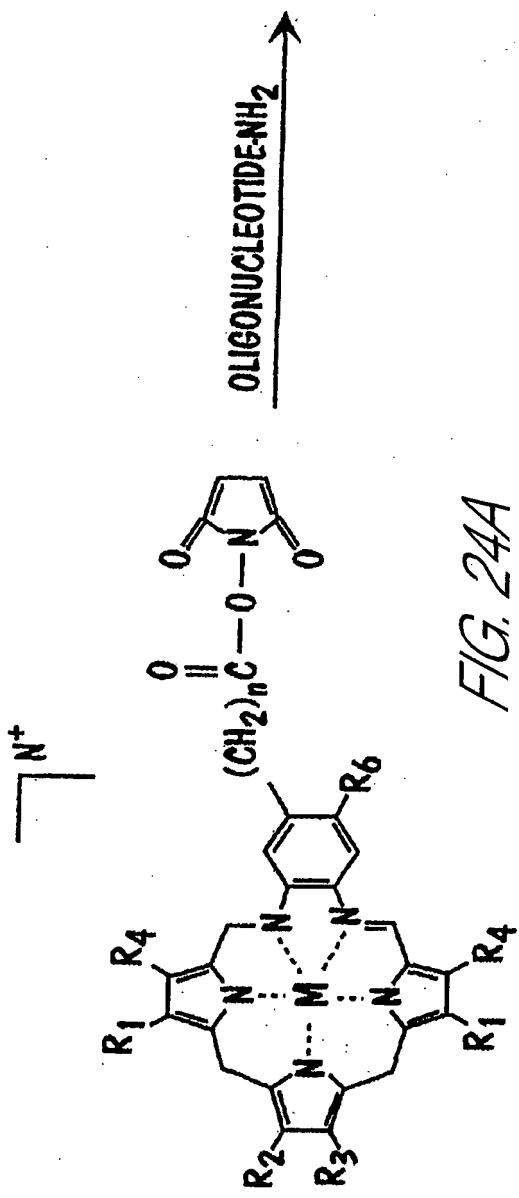
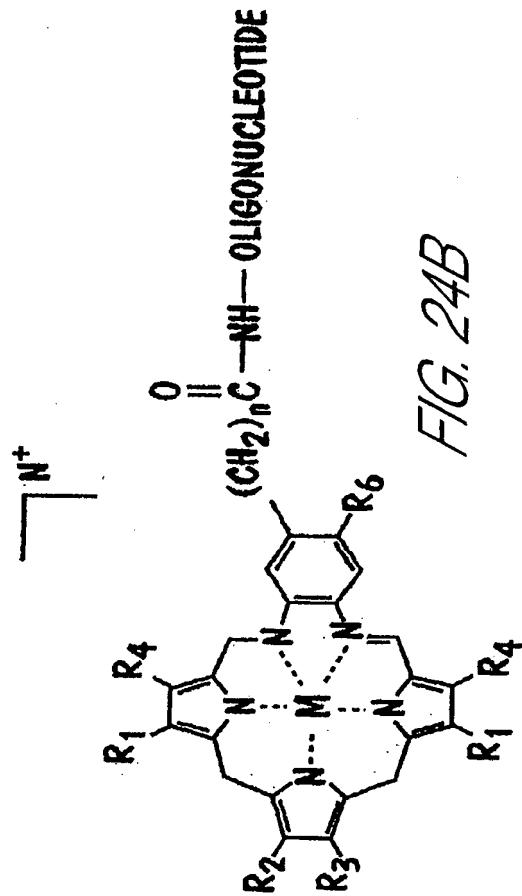


FIG. 24A



$n = 1 - 7$

FIG. 24B

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS

Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

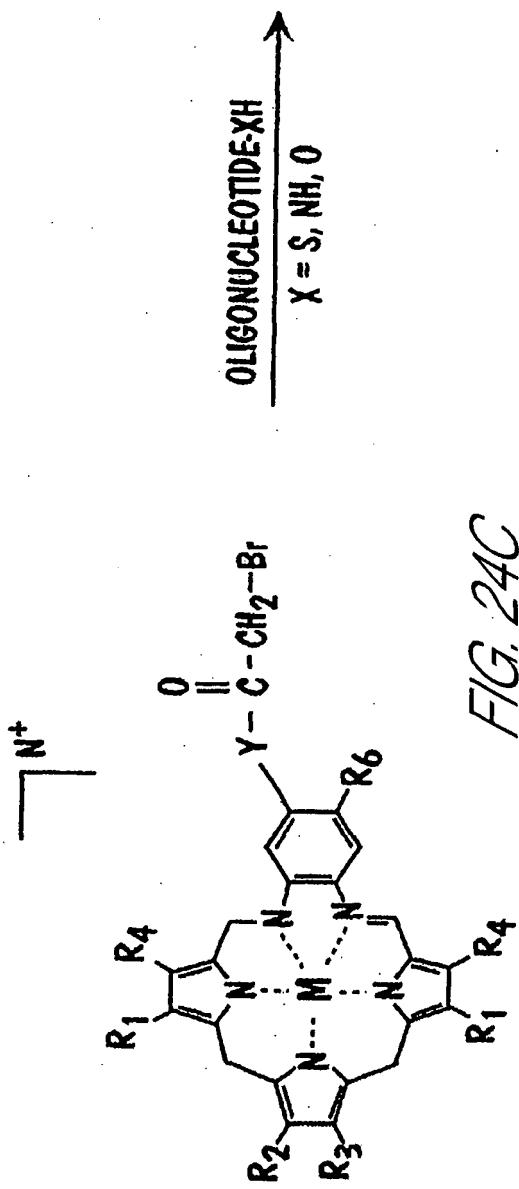
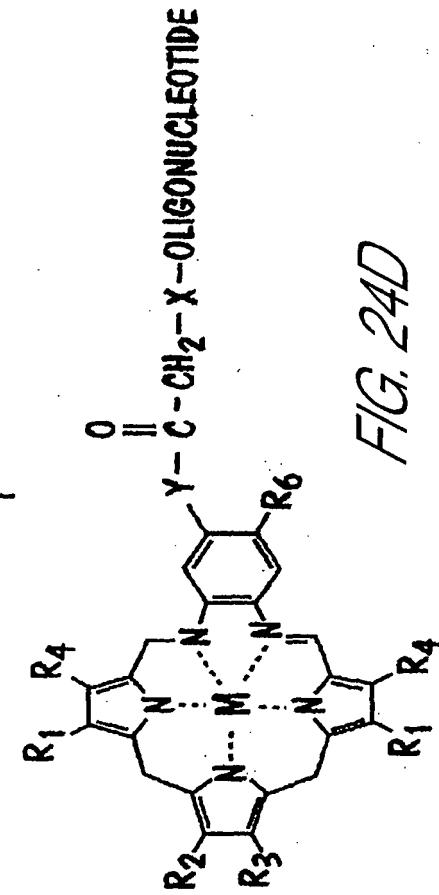


FIG. 24C



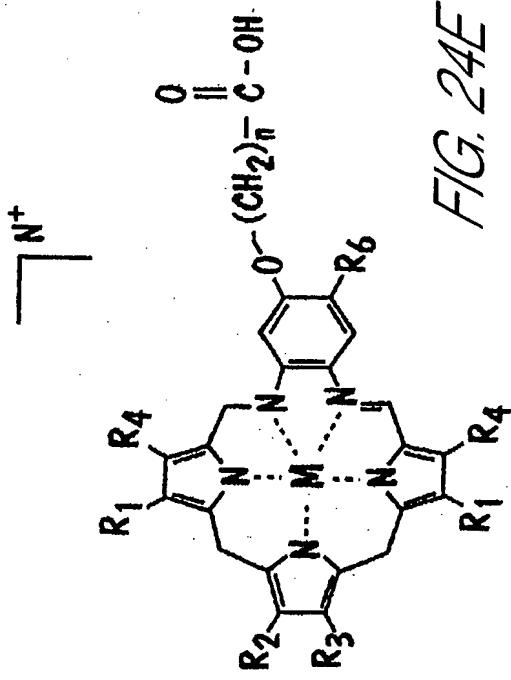
$n = 1-7$

FIG. 24D

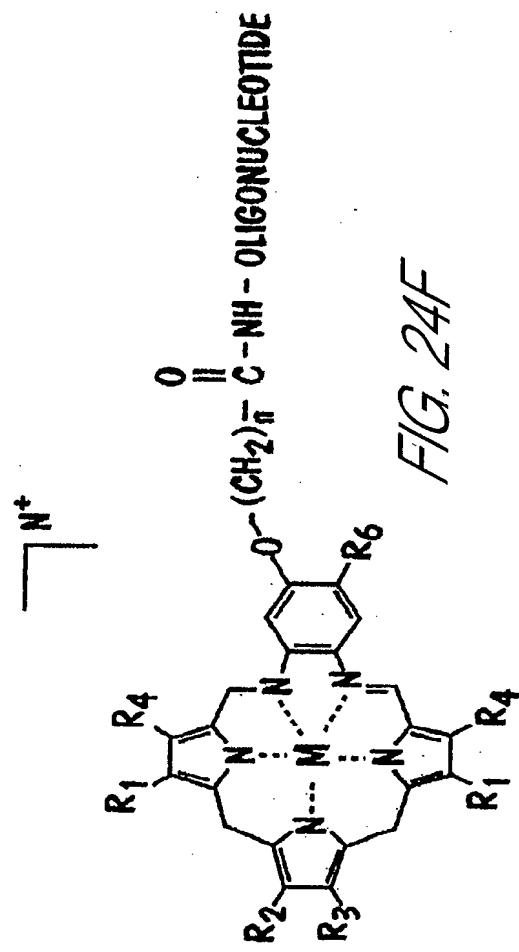
ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED DRUGS

Katsuro Tachibana, et al.  
Appl. No.: Unknown

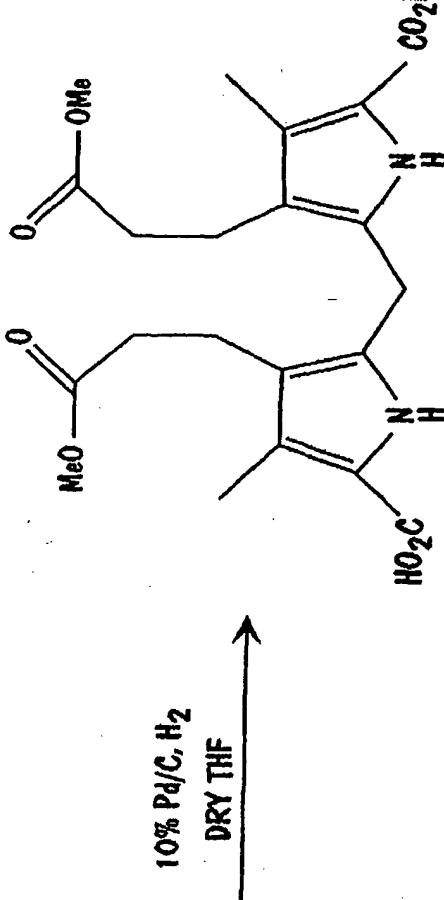
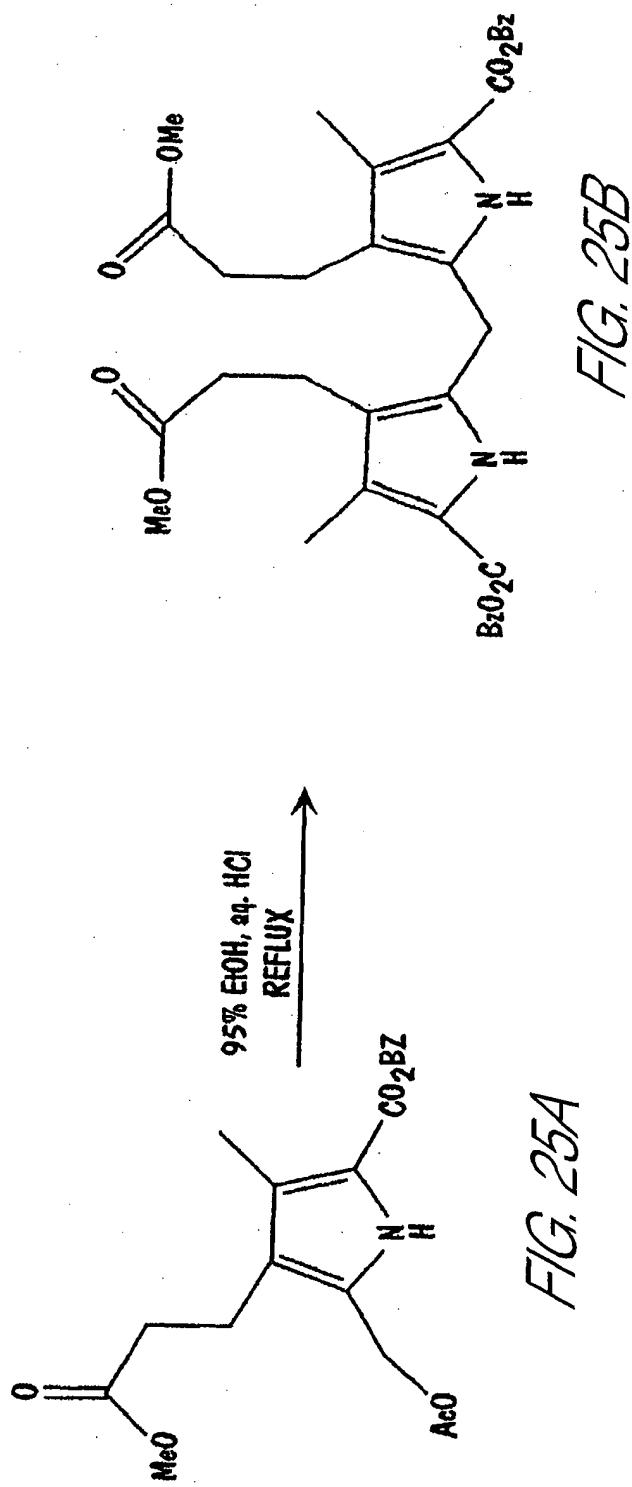
Atty Docket: EKOS.8CP3DV1C3



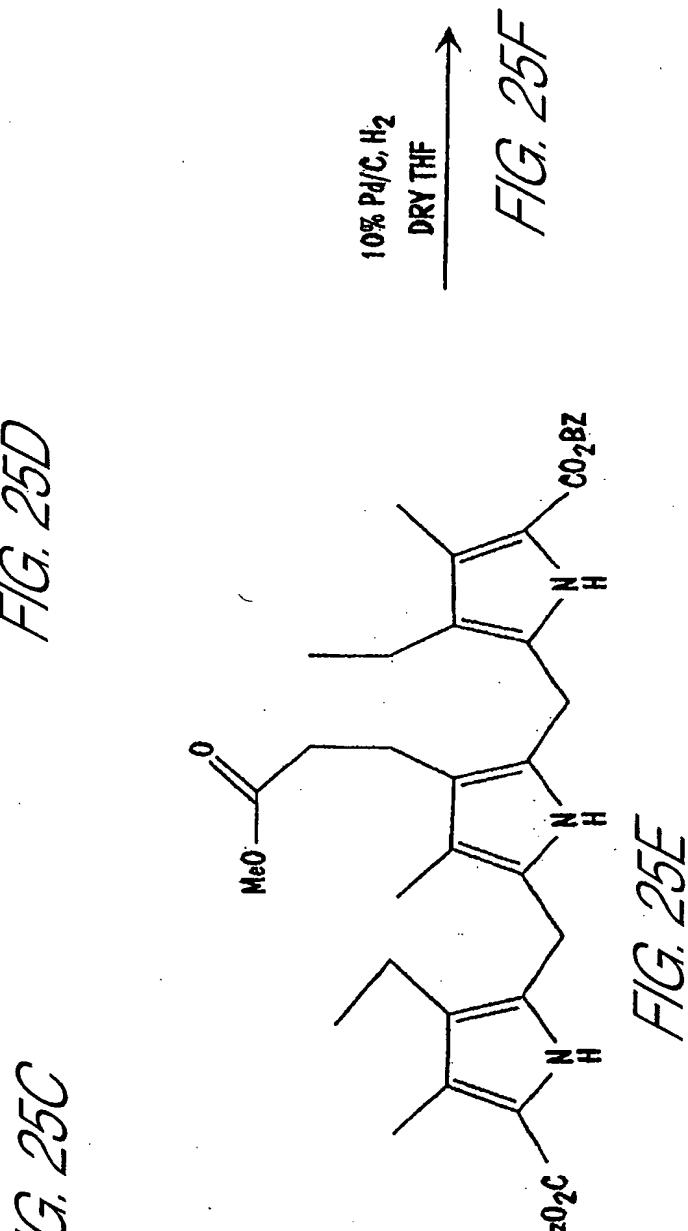
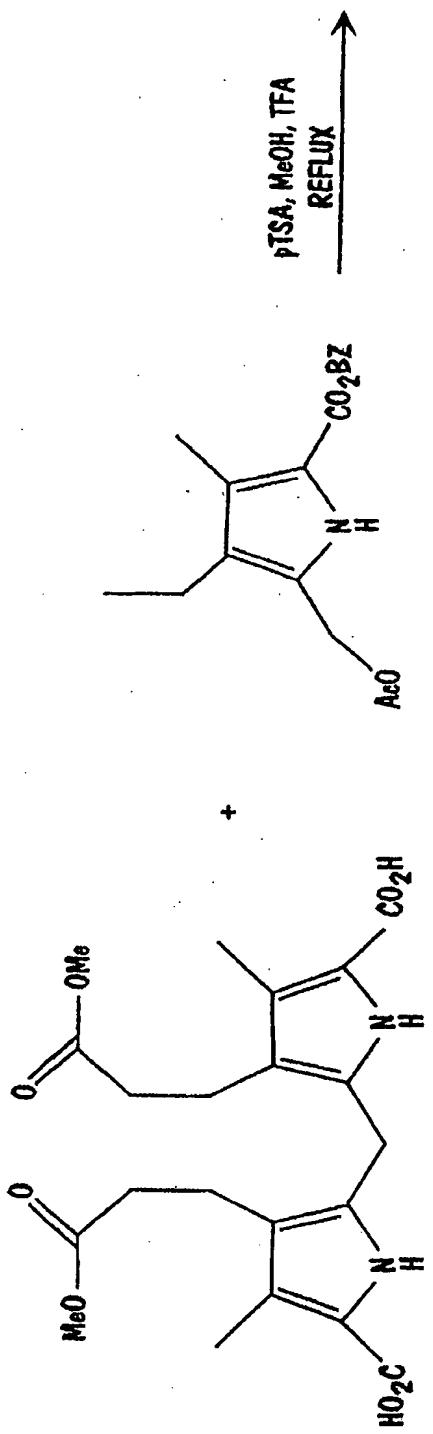
1. NHS, DCC, DMF  
2. OLIGONUCLEOTIDE-NH<sub>2</sub> 90.4 M NaHCO<sub>3</sub>, pH 8.6)



ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
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ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3



ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

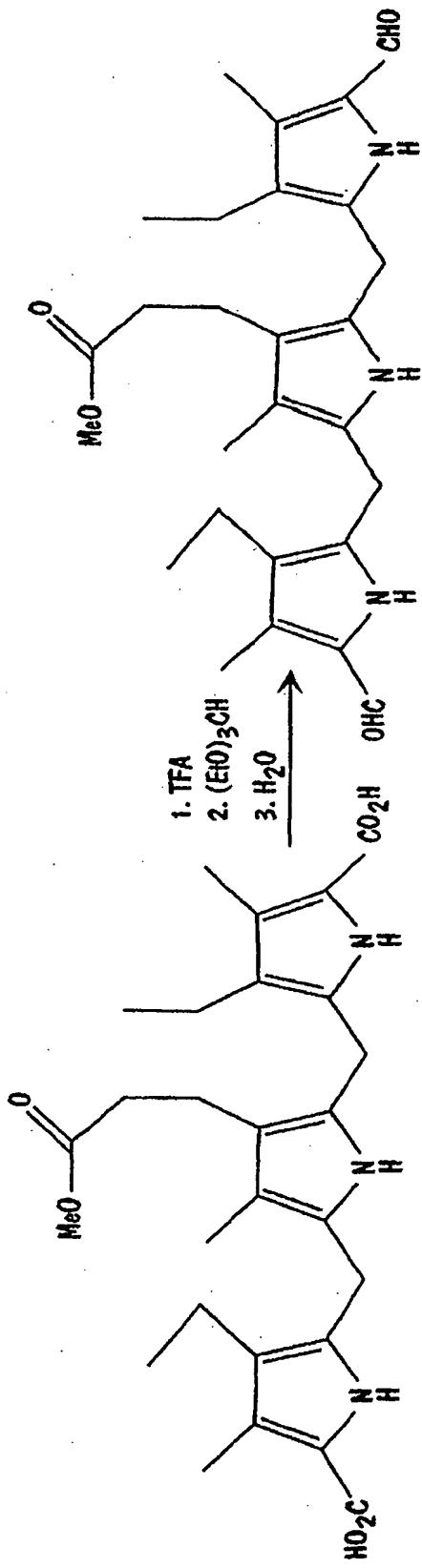
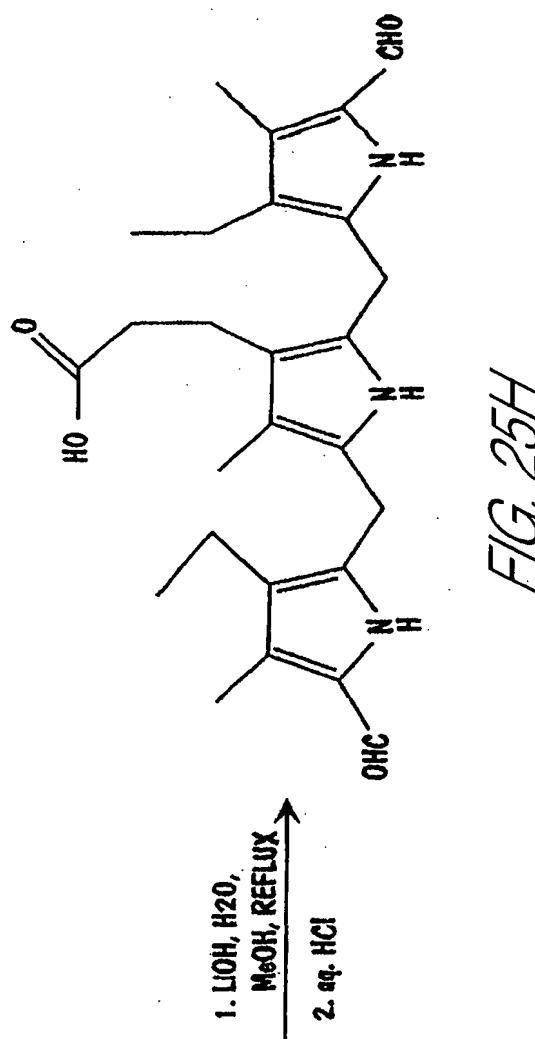


FIG. 25G



ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS  
Katsuro Tachibana, et al.  
Appl. No.: Unknown Atty Docket: EKOS.8CP3DV1C3

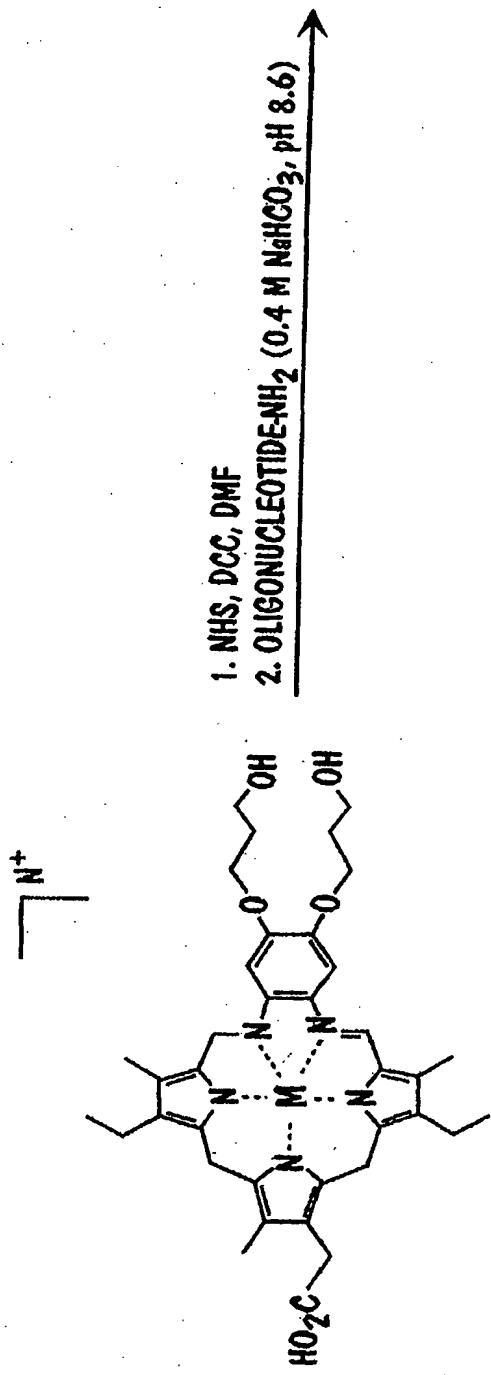


FIG. 25/

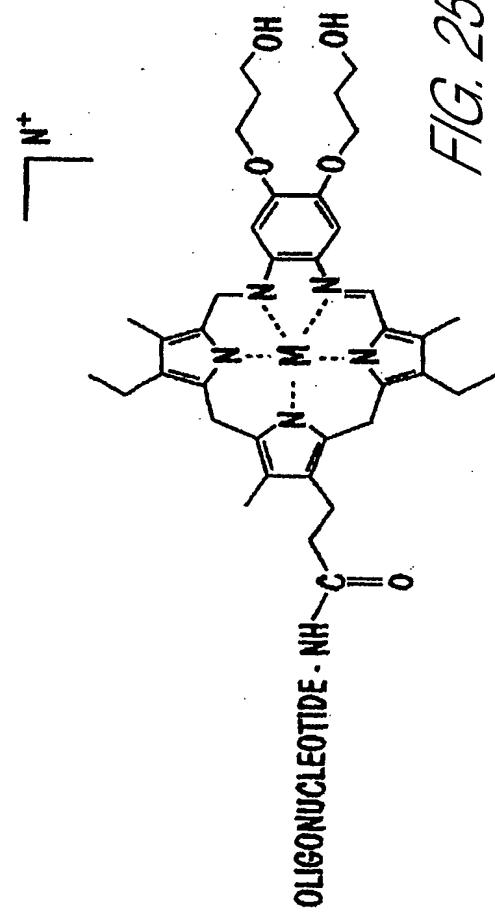


FIG. 25J

ULTRASOUND ASSEMBLY FOR USE WITH LIGHT ACTIVATED  
DRUGS

Katsuro Tachibana, et al.  
Appl. No.: Unknown      Atty Docket: EKOS.8CP3DV1C3

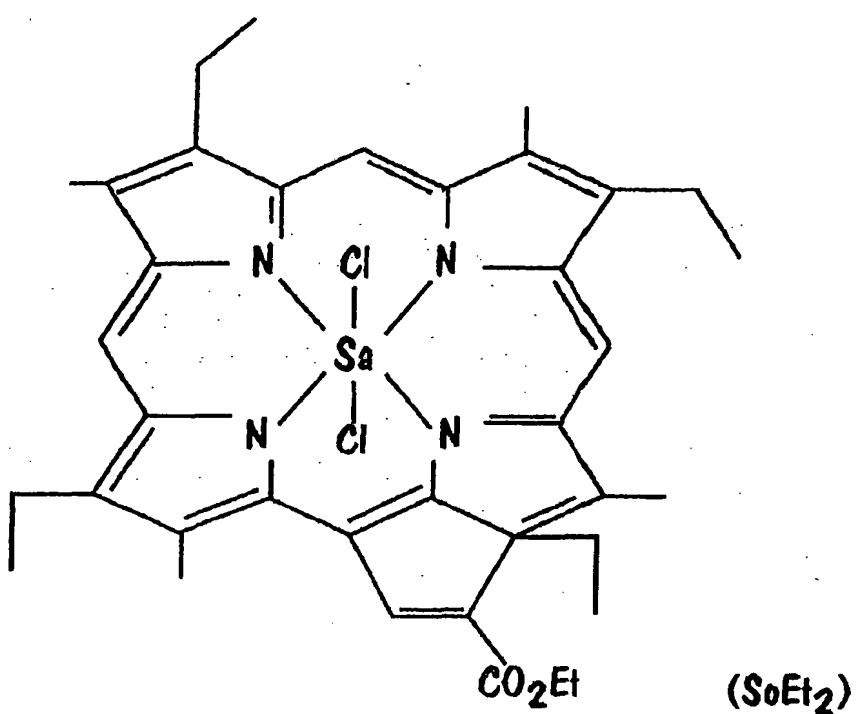


FIG. 26